



Restricted and Reportable Substances for Parts

1 Scope

This specification lists substances whose use in materials and components, in the interests of personnel and environmental safety, are either prohibited or limited.

These restrictions are based on existing legislation or self-imposed regulations.

The aim of this specification is to restrict/stop the usage of the substances listed, to facilitate compliance with current and future regulations.

For additional information on GMW3059, including electronic versions of forms, frequently asked questions and the exemption process, see the website www.gmw3059.com.

1.1 Cross-Reference of Replaced Specifications.

GM South Africa	
GM do Brasil	
Holden	HN 1000, Clause J
GMNA	GM1000M
ISUZU	
ITDC	QU 000000 QU 000001 QU 000002 QU 000003 QU 000004 QU 000005
SAAB	STD 3977

1.2 Typical Application. This specification applies to materials and components specified by the purchaser and for items where the design is held by the supplier (black box).

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

ISO 11014

2.2 GM Group Standards/Specifications.

GME 60271 GME 60282
GMW3001 GMW3034

2.3 Additional References.

VDA 232-101

3 Requirements

The requirements of this specification are contained in tables 1, 2, 3 and 4. Tables 3 and 4 are based on the February 2004 version of the ILRS.

The list contained in this technical specification is based on legal requirements and "List of declarable materials in automobile manufacturing - Substances in components and construction materials" (previous VDA 232-101 List) (from the Association of German Automobile Manufacturers). **All** substances that are listed in this standard in Table 1 and Table 2 that could exist in the product or could be emitted from the product must be declared.

Content limits are specified for all substances both forbidden and requiring declaration. Unless otherwise specified this limit amount is 0.1 % by mass for both declared and forbidden materials. For amounts below this limit a declaration is not required. This percentage is to be calculated for the single material/surface treatment level part, not the assembly.

All substances in the list marked with a "**P**" are prohibited above the reporting limit specified in Table 1 and Table 2 or 0.1 % by mass if a limit is not listed. These substances may be forbidden for all uses or for specific applications due to legal or internal regulations.

If technical requirements make the use of these substances absolutely necessary, a deviation from this regulation must be agreed upon between the supplier and the responsible department at the purchaser.

All substances in the list marked with "**D**" must be declared at levels above the limit noted in the Table 1 and Table 2 or 0.1 % by mass if a limit is not given in the tables. All influences of their use for the specific application shall be evaluated to achieve the highest

possible level of safety and environmental compatibility. These substances must be replaced by other substances, not listed herein, as soon as the advance of technology, availability and economics permit. Periodic reviews of the "D" listed items shall be conducted, the frequency of which will be established by the purchaser.

GMW3059 has been reviewed with the February 2004 version of the International List of Reportable Substances (ILRS). The current version of the ILRS is available at www.mdssystem.com. Any differences between the ILRS and GMW3059 have been noted in Table 1 and Table 2.

Suppliers can solely use the current version of the ILRS for reporting in IMDS. Certification to the ILRS covers the declaration requirements for IMDS.

Prohibitions continue to be listed in Table 1 and Table 2. Suppliers must design their products to be in compliance with GMW3059.

3.1 Requirements on Delivery. Independent of this regulation, the supplier bears the responsibility for ensuring that the materials and components delivered meet the relevant legislations and regulations of the countries to which they are supplied.

The requirements defined in this specification apply according to clause 3.1.1 for all new materials and components supplied, unless otherwise specified on the drawing. These requirements also apply to re-sourced or re-designed materials and components.

3.1.1 Chemical Requirements. See Table 1 and Table 2. The tables are in alphabetical order and by group (i.e. metals, CFC's, etc.), respectively.

Questions regarding the presence of these substances can be resolved by using the test method listed in Tables 1 and 2 or by any appropriate accepted analytical method.

Table 3 and Table 4 are the February 2004 version of the International List of Reportable Substances (ILRS) in short and long form. These lists are included as reference only. Please check www.mdssystem.com for the latest version of the ILRS.

3.1.2 Additional Requirements. This specification requires the supplier to input the material composition of their parts, including any GMW3059 substances and major constituents, in the International Material Data System (IMDS, website: <http://www.mdssystem.com>). Reporting in IMDS will also fulfill the specific reporting requirements that are contained in GMW3059.

Detailed information on GM's IMDS requirements is available on the GM Supply Power website: <http://www.gmsupplypower.com> (from any Power-Section into /Library/General Information/Environmental Sourcing Information/IMDS/...)

Exceptions:

Holden requires IMDS data only for components and materials used for the manufacture of engines and clutch assemblies. For vehicle components and materials only GMW3059 Data Sheets (Appendix A) are required.

GM do Brasil suppliers must continue to submit Data Sheet 1 (Appendix A).

When using Data Sheets (Appendix A): The substances and the materials/components they are used in must be detailed. If the substance is marked with a "P", Data Sheet 1 must be signed by the department listed in the Contact list in the Appendix A for the Unit the part is being supplied to. If the material/component being supplied does not contain any of the substances listed in Table 1 and Table 2, check the appropriate box and submit the Data Sheet 1 as a declaration of compliance to the unit contact as listed in the Contact List.

Table 1: Restricted (P) and Reportable (D) Substances — List by Substances

Substance	Category	CAS No.	Rating	Note	Example — occurrence
All substances listed on the ILRS are declarable in GMW3059.	All substances listed on the ILRS	Various	D	The ILRS is located on www.mdssystem.com	
1,1 Dichloroethylene	Chlorinated hydrocarbons	75-35-4	P		
1,1,1,2 Tetrachloroethane	Chlorinated hydrocarbons	630-20-6	P		
1,1,1,2-Tetrachloro-2,2-Difluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	76-11-9	P		
1,1,1,2-Tetrachloro-2-Fluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	354-11-0	P		
1,1,1-Trichloro-2,2,2-Trifluoro-ethane	Chloro-fluoro-carbons or other Ozone depleting substances	26523-64-8	P		
1,1,1-Trichloro-2-Fluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	2366-36-1	P		
1,1,1-Trichloroethane	Chlorinated hydrocarbons	71-55-6	P		
1,1,1-Trifluorotrichloroethane	Chloro-fluoro-carbons or other Ozone depleting substances	354-58-5	P		
1,1,2- or 1,2,2-Trichloroethane	Chloro-fluoro-carbons or other Ozone depleting substances	79-00-5	P		
1,1,2,2 Tetrachloroethane	Chlorinated hydrocarbons	79-34-5	P		
1,1,2,2-Tetrachloro-1-Fluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	354-14-3	P		
1,1,2-Trichloro-1-Fluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	811-95-0	P		
1,1,2-Trichloro-2-Fluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	359-28-4	P		
1,1,-Difluoroethene (R1132a)	Chloro-fluoro-carbons or other Ozone depleting substances	75-38-7	P		refrigerating or foaming agent, propellant
1,1-Dichloro-1,2,2,2-Tetrafluoro-ethane	Chloro-fluoro-carbons or other Ozone depleting substances	374-07-2	P		
1,1-Dichloro-1-Fluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	1717-00-6	P		
1,1-Dichloro-2,2-Difluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	471-43-2	P		
1,1-Dichloro-2-Fluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	430-53-5	P		
1,2,2-Trichloro-1,1-Difluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	354-21-2	P		
1,2,2-Trichloro-1,2-Difluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	354-15-4	P		
1,2-Dichloro-1,1-Difluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	1649-08-7	P		
1,2-Dichloro-1,2-Difluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	431-06-1	P		
1,2-Dichloro-1-Fluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	430-57-9	P		

Table 1: Restricted (P) and Reportable (D) Substances — List by Substances

Substance	Category	CAS No.	Rating	Note	Example — occurrence
1-Chloro-1,1,2,2-Tetrafluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	354-25-6	P		
1-Chloro-1,1,2-Trifluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	421-04-5	P		
1-Chloro-1,1-Difluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	75-68-3	P		
1-Chloro-1,2,2-Trifluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	431-07-2	P		
1-Chloro-1,2-Difluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	338-64-7	P		
2,2-Dichloro-1,1,1-Trifluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	306-83-2	P		
2,4,5-Trimethylaniline Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2,4-Diaminoanisole Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2,4-Toluyldiamine salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2-Amino-4-nitrotoluene Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2-Chloro-1,1,1,2-Tetrafluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	2837-89-0	P		
2-Chloro-1,1,1-Trifluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	75-88-7	P		
2-Chloro-1,1-Difluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	338-65-8	P		
2-Naphthylamine	Naphthylamine	91-59-8	P	Salt regulated with azo dye	found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2-Naphthylamine Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
3,3'-Dichloro benzidine Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
3,3'-Dimethoxy benzidine Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
3,3'-Dimethyl-4,4'-diaminodiphenyl-methane Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
3,3'-Dimethylbenzidine Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4,4'-Diaminodiphenyl-methane Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4,4'-Methylene-to (2-chloraniline) Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4,4'-Oxydianiline Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics

Table 1: Restricted (P) and Reportable (D) Substances — List by Substances

Substance	Category	CAS No.	Rating	Note	Example — occurrence
4,4'-Thiodianiline Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4-Aminobiphenyl Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4-Chloro toluidine Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4-hydroxy-4-methylpentane-2-one	hydroxy-4-methylpentane-2-one	123-42-2	P for Opel, Saab and Fiat	Note: Also known as diacetone alcohol and 2-pentanone, 4-hydroxy-4-methyl-Chemical is not on ILRS and therefore is not Declarable in IMDS.	
Actinolite	Asbestos	77536-66-4	P	On ILRS under Asbestos	friction lining, gaskets, insulation
Amosite	Asbestos	12172-73-5	P		friction lining, gaskets, insulation
Anthophyllite	Asbestos	17068-78-9	P	On ILRS under Asbestos	friction lining, gaskets, insulation
Benzene	Benzene	71-43-2	P > 100 ppm	Fuels exemptThreshold different in ILRS; will commonize in next version.	
Benzidine	Benzidine or its salts	92-87-5	P > 100 ppm	Salt regulated with azo dye	found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Benzidine Salts	Benzidine or its salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Bromochlorodifluoromethane (Halon 1211)	Halons	353-59-3	P		refrigerating or foaming agent, propellant
Bromotrifluoromethane (Halon 1301)	Halons	75-63-8	P	Note: Different CAS# in ILRS. Will commonize in next version.	refrigerating or foaming agent, propellant
Cadmium	Cadmium or its compounds	7440-43-9	P > 0 ppm	Exemptions to P acc. to Directive 2000/53EC Annex II. A maximum concentration of 100 ppm by weight and per homogeneous material shall be tolerated provided that the Cadmium is not intentionally introduced.	pigments, polymer stabilizer, surface protection of metals
Cadmium compounds	Cadmium or its compounds	Group	P > 0 ppm	Exemptions to P acc. to Directive 2000/53EC Annex II. A maximum concentration of 100 ppm by weight and per homogeneous material shall be tolerated provided that the Cadmium is not intentionally introduced.	pigments, polymer stabilizer, surface protection of metals
Carbon Tetrachloride	Chloro-fluoro-carbons or other Ozone depleting substances	56-23-5	P		
CFC 212	Chloro-fluoro-carbons or other Ozone depleting substances	134452-44-1	P		
Chlorocresol (meta-)	Biocides	59-50-7	D	Listed in ILRS under biocides	
Chlorocresol (ortho-)	Biocides	1570-64-5	D	Listed in ILRS under biocides	
Chlorodifluoromethane (R22)	Chloro-fluoro-carbons or other Ozone depleting substances	75-45-6	P		refrigerating or foaming agent, propellant

Table 1: Restricted (P) and Reportable (D) Substances — List by Substances

Substance	Category	CAS No.	Rating	Note	Example — occurrence
Chlorodifluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	134190-53-7	P		
Chlorofluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	110587-14-9	P		
Chlorofluoromethane (R31)	Chloro-fluoro-carbons or other Ozone depleting substances	593-70-4	P		refrigerating or foaming agent, propellant
Chlorofluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	134190-54-8	P		
Chloroform	Chlorinated hydrocarbons	67-66-3	P		
Chlorohexafluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	28987-04-4	P		
Chloropentafluoroethane (R115)	Chloro-fluoro-carbons or other Ozone depleting substances	76-15-3	P		refrigerating or foaming agent, propellant
Chloropentafluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	108662-83-5	P		
Chlorotetrafluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	134190-50-4	P		
Chlorotrifluoromethane (R13)	Chloro-fluoro-carbons or other Ozone depleting substances	75-72-9	P		refrigerating or foaming agent, propellant
Chlorotrifluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	26588-23-8	P		
Chromium(VI)-Salt - corrosion preventative coatings where the hexavalent chromium is not leachable.	Chromium(VI)-Salts	Group	D > 0 ppm	Will be P for all parts to be released the first time for new vehicle lines incl. their powertrain units put on the market as of MY 04 for Opel and Saab. New vehicle lines means all new types which will get whole vehicle type Approval (WVTA). Will be P MY 07 for all applications for Opel and Saab. Will be P for all applications as of MY 06 for all other regions. A maximum concentration of 1000 ppm by weight and per homogeneous material shall be tolerated provided that the hexavalent chromium is not intentionally introduced. Test method: A test for total chromium (for example) can be used to determine that the application is hexavalent chromium free.	Paint type finishes

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Table 1: Restricted (P) and Reportable (D) Substances — List by Substances

Substance	Category	CAS No.	Rating	Note	Example — occurrence
Chromium(VI)-Salt - corrosion preventive coatings where the hexavalent chromium is leachable	Chromium(VI)-Salts	Group	D > 0 ppm	Will be P for all parts to be released the first time for new vehicle lines incl. their powertrain units put on the market as of MY 04 for Opel and Saab. New vehicle lines means all new types which will get whole vehicle type Approval (WVTA). Will be P MY 07 for all applications for Opel and Saab. Will be P for all applications as of MY 06 for all other regions. A maximum concentration of 0.1 µg/cm² by weight and per homogeneous material shall be tolerated provided that the Hexavalent Chromium is not intentionally introduced. Test method: Principle of GMW3034 can be used.	electrocoats
Chromium(VI)-Salts - All applications except for corrosion preventive coatings	Chromium(VI)-Salts	Group	P > 0 ppm	A maximum concentration of 1000 ppm by weight and per homogeneous material shall be tolerated provided that the Hexavalent Chromium is not intentionally introduced. Test methods: GMW3034 can be used if the hexavalent chromium is leachable. If the hexavalent chromium is not leachable, then a test for total chromium (for example) can be used to determine that the application is hexavalent chromium free.	Plastic pigments, ink pigments
Chrysotile	Asbestos	12001-29-5	P		friction lining, gaskets, insulation
Copper compounds	Copper compounds	Group	D	Alloys, electronics, and wiring exemptCopper compounds are D on the ILRS under Copper.	stabilizer
Crocidolite	Asbestos	12001-28-4	P		friction lining, gaskets, insulation
Decabromodiphenyl ether (DBDPO)	Flame retardants	1163-19-5	P for Saab		Additive in textiles and plastics
Dibromotetrafluoroethane (Halon 2402)	Halons	124-73-2	P		refrigerating or foaming agent, propellant
Dichlorodifluoromethane (R12)	Chloro-fluoro-carbons or other Ozone depleting substances	75-71-8	P		refrigerating or foaming agent, propellant
Dichlorodifluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	134190-52-6	P		
Dichlorofluoromethane	Chloro-fluoro-carbons or other Ozone depleting substances	75-43-4	P		
Dichlorofluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	127404-11-9	P		
Dichlorohexafluoropropane (R216)	Chloro-fluoro-carbons or other Ozone depleting substances	661-97-2	P		
Dichloropentafluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	127564-92-5	P		
Dichlorotetrafluoroethane	Chloro-fluoro-carbons or other Ozone depleting substances	1320-37-2	P		

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Substance	Category	CAS No.	Rating	Note	Example — occurrence
Dichlorotetrafluoroethane (R114)	Chloro-fluoro-carbons or other Ozone depleting substances	76-14-2	P		refrigerating or foaming agent, propellant
Dichlorotetrafluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	127564-83-4	P		
Dichlorotrifluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	116890-51-8	P		
Di-n-octyl-phthalate (DOP)	Phthalates	117-84-0	D	Not on ILRS so is not D in the IMDS system. Issue to be resolved with next revision.	
Formaldehyde	Formaldehyde	50-00-0	P > 10 ppm	Test method: GME 60271 Applies to passenger compartment parts only.	biocide, adhesives, residues and fragments on plastics
HCFC-225 ca	Chloro-fluoro-carbons or other Ozone depleting substances	422-56-1	P		
HCFC-225 cb	Chloro-fluoro-carbons or other Ozone depleting substances	507-55-1	P		
Heptachlorofluoropropane (R211)	Chloro-fluoro-carbons or other Ozone depleting substances		P		
Hexachlorodifluoropropane (R212)	Chloro-fluoro-carbons or other Ozone depleting substances	76546-99-3	P		
Hexachlorofluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	29470-94-8	P		
Hydrobromofluorocarbons	Chloro-fluoro-carbons or other Ozone depleting substances	Group	P		
Lead	Lead or its compounds	7439-92-1	P > 0 ppm	Determined from knowledge of formulation or by chemical analysis using a valid analytical method. Exceptions to P according to Directive 2000/53/EC AnnexII. Lead in wheel balance weights for non-European marketed vehicles is declarable and will be prohibited July 2005. Lead in carbon brushes for electric motors for non-European marketed vehicles is declarable and will be prohibited January 2005. A maximum concentration of 1000 ppm by weight and per homogeneous material shall be tolerated provided that Lead is not intentionally introduced.	soldering alloys
Lead compounds	Lead or its compounds	Group	P > 0 ppm	Determined from knowledge of formulation or by chemical analysis using a valid analytical method. Exceptions to P according to Directive 2000/53/EC AnnexII. A maximum concentration of 1000 ppm by weight and per homogeneous material shall be tolerated provided that Lead is not intentionally introduced.	cable covering, corrosion protection, pigments, additive for cathodic elpo process, lead nitrate and lead acetate.

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Substance	Category	CAS No.	Rating	Note	Example — occurrence
Mercury	Mercury or its compounds	7439-97-6	P > 0 ppm	Exemptions to P acc. to Directive 2000/53EC Annex II. A maximum concentration of 1000 ppm by weight and per homogeneous material shall be tolerated provided that Mercury is not intentionally introduced.	
Mercury compounds	Mercury or its compounds	Group	P > 0 ppm	Exemptions to P acc. to Directive 2000/53EC Annex II. A maximum concentration of 1000 ppm by weight and per homogeneous material shall be tolerated provided that Mercury is not intentionally introduced.	pigments
Mesityl Oxide	Mesityl Oxide	141-79-7	P for Opel Saab & Fiat	Chemical is not on ILRS and therefore is not D in the IMDS.	
Methyl Bromide	Chloro-fluoro-carbons or other Ozone depleting substances	74-83-9	P		
Methylene Chloride	Chlorinated hydrocarbons	75-09-2	P		
Mineral fibres diameter <3µm, length >5µm, l:d > 3:1 and other respirable	Mineral fibres	Group	D		friction lining, shielding, reinforcement, insulation, cable
Monochloroheptafluoropropane (R217)	Chloro-fluoro-carbons or other Ozone depleting substances		P		
Monomethyldibromodiphenyl-methane	Flame retardants	99688-47-8	P	On ILRS under Brominated Flame Retardants	residues and fragments during the manufacture of polymers
Monomethyldichlorodiphenyl-methane	Flame retardants	76253-60-6	P	On ILRS under Brominated Flame Retardants	residues and fragments during the manufacture of polymers
Monomethyltetrachlorodiphenylmethane	Flame retardants		P	On ILRS under Brominated Flame Retardants	residues and fragments during the manufacture of polymers
m-Toluidine	Azo dye	108-44-1	D	On ILRS under Azo dyes	dye, textile auxiliary, curing agent
o-Aminoazotoluene Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Octabromodiphenyl ether	Flame retardants	32536-52-0	P	Test per GC/MS or other applicable method	Brominated Flame retardant
o-Toluidine Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
p-Chloraniline Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
p-Cresidine Salts	Azo dye	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Pentabromodiphenyl ether	Flame retardants	32534-81-9	P	Test per GC/MS or other applicable method On ILRS under Brominated Flame Retardants	Brominated Flame retardant
Pentachlorodifluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	116867-32-4	P		
Pentachloroethane	Chlorinated hydrocarbons	76-01-7	P		

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Substance	Category	CAS No.	Rating	Note	Example — occurrence
Pentachlorofluoroethane (R111)	Chloro-fluoro-carbons or other Ozone depleting substances	354-56-3	P		
Pentachlorofluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	134190-48-0	P		
Pentachlorophenol (PCP)	Pentachlorophenol (PCP) or its compounds	87-86-5	P		wood preservative
Pentachlorophenol compounds	Pentachlorophenol (PCP) or its compounds	Group	P		wood preservative
Pentachlorotrifluoropropane (R213)	Chloro-fluoro-carbons or other Ozone depleting substances		P		
Perchloroethylene	Chlorinated hydrocarbons	127-18-4	P		
Phenol	Phenol	108-95-2	D	Test Method: GME 60282. Also on ILRS	residual monomer in phenolic resins, fragments on polymer materials, wood materials and textiles
Polybrominated Biphenyl (PBB)	Polybrominated Biphenyl	59536-65-1	P		
Polybrominated Diphenylether (PBDE)	Polybrominated Diphenylether		P		additive in plastics and textiles
Polybrominated Terphenyl	Polybrominated Terphenyl		P		additive in plastics and textiles
Polychlorinated Biphenyl (PCB)	Polychlorinated Biphenyl	Including 1336-36-3	P		softener, impregnating agent, insulation liquid
Polychlorinated Terphenyl (PCT)	Polychlorinated Terphenyl		P		softener, impregnating agent, insulation liquid
p-Toluidine	Azo dye	106-49-0	D	On ILRS under Azo dyes	dye, textile auxiliary, curing agent
Radioactive Substance	Radioactive Substance		D > back-ground	Also on ILRS; threshold to be commonized with next version.	
Sodium azide	Sodium azide	26628-22-8	D	On ILRS under pyrotechnical compounds.	gas generator airbag
Tetrachlorodifluoroethane (R112)	Chloro-fluoro-carbons or other Ozone depleting substances	76-12-0	P		refrigerating or foaming agent, propellant
Tetrachlorodifluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	127564-82-3	P		
Tetrachlorofluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	134190-49-1	P		
Tetrachlorotetrafluoropropane (R214)	Chloro-fluoro-carbons or other Ozone depleting substances	2268-46-4	P		
Tetrachlorotrifluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	29470-95-9	P		
Tin mercaptans	Tin compounds	Group	D except for Opel, Saab & Fiat; P for Opel Saab & Fiat	On ILRS under tin organics	Stabiliser in PVC
Tremolite	Asbestos	14567-73-8	P	On ILRS under Asbestos	friction lining, gaskets, insulation
Trichlorodifluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	127564-90-3	P		

Table 1: Restricted (P) and Reportable (D) Substances — List by Substances

Substance	Category	CAS No.	Rating	Note	Example — occurrence
Trichloroethylene	Chlorinated hydrocarbons	79-01-6	P		
Trichlorofluoromethane (R11)	Chloro-fluoro-carbons or other Ozone depleting substances	75-69-4	P		refrigerating or foaming agent, propellant
Trichlorofluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	134190-51-5	P		
Trichloropentafluoropropane (R215)	Chloro-fluoro-carbons or other Ozone depleting substances	4259-43-2	P		
Trichlorotetrafluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	127564-91-4	P		
Trichlorotrifluoroethane (R113)	Chloro-fluoro-carbons or other Ozone depleting substances	76-13-1	P		refrigerating or foaming agent, propellant
Trichlorotrifluoropropane	Chloro-fluoro-carbons or other Ozone depleting substances	134237-40-4	P		
Vinylchloride monomer	Vinylchloride	75-01-4	P		residual monomer

Table 2: Restricted (F) and Reportable (D) Substances — List by Category

Category	Substance	CAS No.	Rating	Note	Example — occurrence
All substances listed on the ILRS	All substances listed on the ILRS are declarable in GMW3059.	Various	D	The ILRS is located on www.mdsys-tem.com	
Asbestos	Actinolite	77536-66-4	P	On ILRS under Asbestos	friction lining, gaskets, insulation
Asbestos	Amosite	12172-73-5	P		friction lining, gaskets, insulation
Asbestos	Anthophyllite	17068-78-9	P	On ILRS under Asbestos	friction lining, gaskets, insulation
Asbestos	Chrysotile	12001-29-5	P		friction lining, gaskets, insulation
Asbestos	Crocidolite	12001-28-4	P		friction lining, gaskets, insulation
Asbestos	Tremolite	14567-73-8	P	On ILRS under Asbestos	friction lining, gaskets, insulation
Azo dye	2,4,5-Trimethylaniline Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	2,4-Diaminoanisol Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	2,4-Toluylendiamine salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	2-Amino-4-nitrotoluene Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	2-Naphthylamine Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	3,3'-Dichloro benzidine Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	3,3'-Dimethoxy benzidine Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	3,3'-Dimethyl-4,4'-diaminodiphenyl-methane Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	3,3'-Dimethylbenzidine Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	4,4'-Diaminodiphenyl-methane Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	4,4'-Methylene-to (2-chloraniline) Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	4,4'-Oxydianiline Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	4,4'-Thiodianiline Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	4-Aminobiphenyl Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	4-Chloro toluidine Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	m-Toluidine	108-44-1	D	On ILRS under Azo dyes	dye, textile auxiliary, curing agent
Azo dye	o-Aminoazotoluene Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics

Table 2: Restricted (F) and Reportable (D) Substances — List by Category

Category	Substance	CAS No.	Rating	Note	Example — occurrence
Azo dye	o-Toluidine Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	p-Chloraniline Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	p-Cresidine Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Azo dye	p-Toluidine	106-49-0	D	On ILRS under Azo dyes	dye, textile auxiliary, curing agent
Benzene	Benzene	71-43-2	P > 100 ppm	Fuels exemptThreshold different in ILRS; will commonize in next version.	
Benzidine or its salts	Benzidine	92-87-5	P > 100 ppm	Salt regulated with azo dye	found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Benzidine or its salts	Benzidine Salts	Group	P		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Biocides	Chlorocresol (meta-)	59-50-7	D	Listed in ILRS under biocides	
Biocides	Chlorocresol (ortho-)	1570-64-5	D	Listed in ILRS under biocides	
Cadmium or its compounds	Cadmium	7440-43-9	P > 0 ppm	Exemptions to P acc. to Directive 2000/53EC Annex II. A maximum concentration of 100 ppm by weight and per homogeneous material shall be tolerated provided that the Cadmium is not intentionally introduced.	pigments, polymer stabilizer, surface protection of metals
Cadmium or its compounds	Cadmium compounds	Group	P > 0 ppm	Exemptions to P acc. to Directive 2000/53EC Annex II. A maximum concentration of 100 ppm by weight and per homogeneous material shall be tolerated provided that the Cadmium is not intentionally introduced.	pigments, polymer stabilizer, surface protection of metals
Chlorinated hydrocarbons	1,1 Dichloroethylene	75-35-4	P		
Chlorinated hydrocarbons	1,1,1,2 Tetrachloroethane	630-20-6	P		
Chlorinated hydrocarbons	1,1,1-Trichloroethane	71-55-6	P		
Chlorinated hydrocarbons	1,1,2,2 Tetrachloroethane	79-34-5	P		
Chlorinated hydrocarbons	Chloroform	67-66-3	P		
Chlorinated hydrocarbons	Methylene Chloride	75-09-2	P		
Chlorinated hydrocarbons	Pentachloroethane	76-01-7	P		
Chlorinated hydrocarbons	Perchloroethylene	127-18-4	P		
Chlorinated hydrocarbons	Trichloroethylene	79-01-6	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,1,1,2-Tetrachloro-2,2-Difluoroethane	76-11-9	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,1,1,2-Tetrachloro-2-Fluoroethane	354-11-0	P		

Table 2: Restricted (F) and Reportable (D) Substances — List by Category

Category	Substance	CAS No.	Rating	Note	Example — occurrence
Chloro-fluoro-carbons or other Ozone depleting substances	1,1,1-Trichloro-2,2,2-Trifluoro-ethane	26523-64-8	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,1,1-Trichloro-2-Flouroethane	2366-36-1	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,1,2- or 1,2,2-Trichloroethane	79-00-5	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,1,2,2-Tetrachloro-1-Fluoroethane	354-14-3	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,1,2-Trichloro-1-Flouroethane	811-95-0	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,1,2-Trichloro-2-Flouroethane	359-28-4	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,1,-Difluoroethene (R1132a)	75-38-7	P		refrigerating or foaming agent, propellant
Chloro-fluoro-carbons or other Ozone depleting substances	1,1-Dichloro-1,2,2,2-Tetrafluoro-ethane	374-07-2	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,1-Dichloro-1-Fluoroethane	1717-00-6	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,1-Dichloro-2,2-Difluoroethane	471-43-2	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,1-Dichloro-2-Fluoroethane	430-53-5	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,2,2-Trichloro-1,1-Difluoroethane	354-21-2	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,2,2-Trichloro-1,2-Difluoroethane	354-15-4	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,2-Dichloro-1,1-Difluoroethane	1649-08-7	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,2-Dichloro-1,2-Difluoroethane	431-06-1	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,2-Dichloro-1-Fluoroethane	430-57-9	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1-Chloro-1,1,2,2-Tetrafluoroethane	354-25-6	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1-Chloro-1,1,2-Trifluoroethane	421-04-5	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1-Chloro-1,1-Difluoroethane	75-68-3	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1-Chloro-1,2,2-Trifluoroethane	431-07-2	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1-Chloro-1,2-Difluoroethane	338-64-7	P		
Chloro-fluoro-carbons or other Ozone depleting substances	2,2-Dichloro-1,1,1-Trifluoroethane	306-83-2	P		

Table 2: Restricted (F) and Reportable (D) Substances — List by Category

Category	Substance	CAS No.	Rating	Note	Example — occurrence
Chloro-fluoro-carbons or other Ozone depleting substances	2-Chloro-1,1,1,2-Tetrafluoroethane	2837-89-0	P		
Chloro-fluoro-carbons or other Ozone depleting substances	2-Chloro-1,1,1-Trifluoroethane	75-88-7	P		
Chloro-fluoro-carbons or other Ozone depleting substances	2-Chloro-1,1-Difluoroethane	338-65-8	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Carbon Tetrachloride	56-23-5	P		
Chloro-fluoro-carbons or other Ozone depleting substances	CFC 212	134452-44-1	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Chlorodifluoromethane (R22)	75-45-6	P		refrigerating or foaming agent, propellant
Chloro-fluoro-carbons or other Ozone depleting substances	Chlorodifluoropropane	134190-53-7	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Chlorofluoroethane	110587-14-9	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Chlorofluoromethane (R31)	593-70-4	P		refrigerating or foaming agent, propellant
Chloro-fluoro-carbons or other Ozone depleting substances	Chlorofluoropropane	134190-54-8	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Chlorohexafluoropropane	28987-04-4	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Chloropentafluoroethane (R115)	76-15-3	P		refrigerating or foaming agent, propellant
Chloro-fluoro-carbons or other Ozone depleting substances	Chloropentafluoropropane	108662-83-5	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Chlorotetrafluoropropane	134190-50-4	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Chlorotrifluoromethane (R13)	75-72-9	P		refrigerating or foaming agent, propellant
Chloro-fluoro-carbons or other Ozone depleting substances	Chlorotrifluoropropane	26588-23-8	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Dichlorodifluoromethane (R12)	75-71-8	P		refrigerating or foaming agent, propellant
Chloro-fluoro-carbons or other Ozone depleting substances	Dichlorodifluoropropane	134190-52-6	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Dichlorofluoromethane	75-43-4	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Dichlorofluoropropane	127404-11-9	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Dichlorohexafluoropropane (R216)	661-97-2	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Dichloropentafluoropropane	127564-92-5	P		

Table 2: Restricted (F) and Reportable (D) Substances — List by Category

Category	Substance	CAS No.	Rating	Note	Example — occurrence
Chloro-fluoro-carbons or other Ozone depleting substances	Dichlorotetrafluoroethane	1320-37-2	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Dichlorotetrafluoroethane (R114)	76-14-2	P		refrigerating or foaming agent, propellant
Chloro-fluoro-carbons or other Ozone depleting substances	Dichlorotetrafluoropropane	127564-83-4	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Dichlorotrifluoropropane	116890-51-8	P		
Chloro-fluoro-carbons or other Ozone depleting substances	HCFC-225 ca	422-56-1	P		
Chloro-fluoro-carbons or other Ozone depleting substances	HCFC-225 cb	507-55-1	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Heptachlorofluoropropane (R211)		P		
Chloro-fluoro-carbons or other Ozone depleting substances	Hexachlorodifluoropropane (R212)	76546-99-3	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Hexachlorofluoropropane	29470-94-8	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Hydrobromofluorocarbons	Group	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Methyl Bromide	74-83-9	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Monochloroheptafluoropropane (R217)		P		
Chloro-fluoro-carbons or other Ozone depleting substances	Pentachlorodifluoropropane	116867-32-4	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Pentachlorofluoroethane (R111)	354-56-3	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Pentachlorofluoropropane	134190-48-0	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Pentachlorotrifluoropropane (R213)		P		
Chloro-fluoro-carbons or other Ozone depleting substances	Tetrachlorodifluoroethane (R112)	76-12-0	P		refrigerating or foaming agent, propellant
Chloro-fluoro-carbons or other Ozone depleting substances	Tetrachlorodifluoropropane	127564-82-3	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Tetrachlorofluoropropane	134190-49-1	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Tetrachlorotetrafluoropropane (R214)	2268-46-4	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Tetrachlorotrifluoropropane	29470-95-9	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Trichlorodifluoropropane	127564-90-3	P		

Table 2: Restricted (F) and Reportable (D) Substances — List by Category

Category	Substance	CAS No.	Rating	Note	Example — occurrence
Chloro-fluoro-carbons or other Ozone depleting substances	Trichlorofluoromethane (R11)	75-69-4	P		refrigerating or foaming agent, propellant
Chloro-fluoro-carbons or other Ozone depleting substances	Trichlorofluoropropane	134190-51-5	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Trichloropentafluoropropane (R215)	4259-43-2	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Trichlorotetrafluoropropane	127564-91-4	P		
Chloro-fluoro-carbons or other Ozone depleting substances	Trichlorotrifluoroethane (R113)	76-13-1	P		refrigerating or foaming agent, propellant
Chloro-fluoro-carbons or other Ozone depleting substances	Trichlorotrifluoropropane	134237-40-4	P		
Chloro-fluoro-carbons or other Ozone depleting substances	1,1,1-Trifluorotrichloroethane	354-58-5	P		
Chromium(VI)-Salts	Chromium(VI)-Salt - corrosion preventative coatings where the hexavalent chromium is not leachable.	Group	D > 0 ppm	Will be P for all parts to be released the first time for new vehicle lines incl. their powertrain units put on the market as of MY 04 for Opel and Saab. New vehicle lines means all new types which will get whole vehicle type Approval (WVTA). Will be P MY 07 for all applications for Opel and Saab. Will be P for all applications as of MY 06 for all other regions. A maximum concentration of 1000 ppm by weight and per homogeneous material shall be tolerated provided that the hexavalent chromium is not intentionally introduced. Test method: A test for total chromium (for example) can be used to determine that the application is hexavalent chromium free.	Paint type finishes
Chromium(VI)-Salts	Chromium(VI)-Salt - corrosion preventive coatings where the hexavalent chromium is leachable	Group	D > 0 ppm	Will be P for all parts to be released the first time for new vehicle lines incl. their powertrain units put on the market as of MY 04 for Opel and Saab. New vehicle lines means all new types which will get whole vehicle type Approval (WVTA). Will be P MY 07 for all applications for Opel and Saab. Will be P for all applications as of MY 06 for all other regions. A maximum concentration of 0.1 µg/cm ² by weight and per homogeneous material shall be tolerated provided that the Hexavalent Chromium is not intentionally introduced. Test method: Principle of GMW3034 can be used.	electrocoats

Table 2: Restricted (F) and Reportable (D) Substances — List by Category

Category	Substance	CAS No.	Rating	Note	Example — occurrence
Chromium(VI)-Salts	Chromium(VI)-Salts - All applications except for corrosion preventive coatings	Group	P > 0 ppm	A maximum concentration of 1000 ppm by weight and per homogeneous material shall be tolerated provided that the Hexavalent Chromium is not intentionally introduced. Test methods: GMW3034 can be used if the hexavalent chromium is leachable. If the hexavalent chromium is not leachable, then a test for total chromium (for example) can be used to determine that the application is hexavalent chromium free.	Plastic pigments, ink pigments
Copper compounds	Copper compounds	Group	D	Alloys, electronics, and wiring exemptCopper compounds are D on the ILRS under Copper.	stabilizer
Flame retardants	Decabromodiphenyl ether (DBDPO)	1163-19-5	P for Saab		Additive in textiles and plastics
Flame retardants	Monomethyldibromodiphenyl-methane	99688-47-8	P	On ILRS under Brominated Flame Retardants	residues and fragments during the manufacture of polymers
Flame retardants	Monomethyldichlorodiphenyl-methane	76253-60-6	P	On ILRS under Brominated Flame Retardants	residues and fragments during the manufacture of polymers
Flame retardants	Monomethyltetrachlorodiphenylmethane		P	On ILRS under Brominated Flame Retardants	residues and fragments during the manufacture of polymers
Flame retardants	Octabromodiphenyl ether	32536-52-0	P	Test per GC/MS or other applicable method	Brominated Flame retardant
Flame retardants	Pentabromodiphenyl ether	32534-81-9	P	Test per GC/MS or other applicable methodOn ILRS under Brominated Flame Retardants	Brominated Flame retardant
Formaldehyde	Formaldehyde	50-00-0	P > 10 ppm	Test method: GME 60271 Applies to passenger compartment parts only.	biocide, adhesives, residues and fragments on plastics
Halons	Bromochlorodifluoromethane (Halon 1211)	353-59-3	P		refrigerating or foaming agent, propellant
Halons	Bromotrifluoromethane (Halon 1301)	75-63-8	P	Note: Different CAS# in ILRS. Will commonize in next version.	refrigerating or foaming agent, propellant
Halons	Dibromotetrafluoroethane (Halon 2402)	124-73-2	P		refrigerating or foaming agent, propellant
hydroxy-4-methylpentane-2-one	4-hydroxy-4-methylpentane-2-one	123-42-2	P for Opel, Saab and Fiat	Note: Also known as diacetone alcohol and 2-pentanone, 4-hydroxy-4-methyl-Chemical is not on ILRS and therefore is not Declarable in IMDS.	

Table 2: Restricted (F) and Reportable (D) Substances — List by Category

Category	Substance	CAS No.	Rating	Note	Example — occurrence
Lead or its compounds	Lead	7439-92-1	P > 0 ppm	Determined from knowledge of formulation or by chemical analysis using a valid analytical method. Exceptions to P according to Directive 2000/53/EC AnnexII. Lead in wheel balance weights for non-European marketed vehicles is declarable and will be prohibited July 2005. Lead in carbon brushes for electric motors for non-European marketed vehicles is declarable and will be prohibited January 2005. A maximum concentration of 1000 ppm by weight and per homogeneous material shall be tolerated provided that Lead is not intentionally introduced.	soldering alloys
Lead or its compounds	Lead compounds	Group	P > 0 ppm	Determined from knowledge of formulation or by chemical analysis using a valid analytical method. Exceptions to P according to Directive 2000/53/EC AnnexII. A maximum concentration of 1000 ppm by weight and per homogeneous material shall be tolerated provided that Lead is not intentionally introduced.	cable covering, corrosion protection, pigments, additive for cathodic elpo process, lead nitrate and lead acetate.
Mercury or its compounds	Mercury	7439-97-6	P > 0 ppm	Exemptions to P acc. to Directive 2000/53EC Annex II. A maximum concentration of 1000 ppm by weight and per homogeneous material shall be tolerated provided that Mercury is not intentionally introduced.	
Mercury or its compounds	Mercury compounds	Group	P > 0 ppm	Exemptions to P acc. to Directive 2000/53EC Annex II. A maximum concentration of 1000 ppm by weight and per homogeneous material shall be tolerated provided that Mercury is not intentionally introduced.	pigments
Mesityl Oxide	Mesityl Oxide	141-79-7	P for Opel Saab & Fiat	Chemical is not on ILRS and therefore is not D in the IMDS.	
Mineral fibres	Mineral fibres diameter <3µm, length >5µm, l:d > 3:1 and other respirable	Group	D		friction lining, shielding, reinforcement, insulation, cable
Naphthylamine	2-Naphthylamine	91-59-8	P	Salt regulated with azo dye	found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Pentachlorophenol (PCP) or its compounds	Pentachlorophenol (PCP)	87-86-5	P		wood preservative
Pentachlorophenol (PCP) or its compounds	Pentachlorophenol compounds	Group	P		wood preservative
Phenol	Phenol	108-95-2	D	Test Method: GME 60282. Also on ILRS	residual monomer in phenolic resins, fragments on polymer materials, wood materials and textiles

Table 2: Restricted (F) and Reportable (D) Substances — List by Category

Category	Substance	CAS No.	Rating	Note	Example — occurrence
Phthalates	Di-n-octyl-phthalate (DOP)	117-84-0	D	Not on ILRS so is not D in the IMDS system. Issue to be resolved with next revision.	
Polybrominated Biphenyl	Polybrominated Biphenyl (PBB)	59536-65-1	P		
Polybrominated Diphenylether	Polybrominated Diphenylether (PBDE)		P		additive in plastics and textiles
Polybrominated Terphenyl	Polybrominated Terphenyl		P		additive in plastics and textiles
Polychlorinated Biphenyl	Polychlorinated Biphenyl (PCB)	Including 1336-36-3	P		softener, impregnating agent, insulation liquid
Polychlorinated Terphenyl	Polychlorinated Terphenyl (PCT)		P		softener, impregnating agent, insulation liquid
Radioactive Substance	Radioactive Substance		D > back-ground	Also on ILRS; threshold to be commonized with next version.	
Sodium azide	Sodium azide	26628-22-8	D	On ILRS under pyrotechnical compounds.	gas generator airbag
Tin compounds	Tin mercaptans	Group	D except for Opel, Saab & Fiat; P for Opel Saab & Fiat	On ILRS under tin organics	Stabiliser in PVC
Vinylchloride	Vinylchloride monomer	75-01-4	P		residual monomer

Table 3: Reportable Substances in IMDS (Short)

	Substance	EU-INDEX-No.	CAS No.	Classification	Source (Legal requirements, regulations)	Danger / Risk	Threshold (0.1% unless stated otherwise)
1	1-Chloro-2,3-epoxy-propane	603-026-00-6	106-89-8	D	EU-D 67/548/EEC	C2	
2	2,4,6-tri-tert-butylphenol		732-26-3	D/P	Japan (Chemical Substances control Law)		
3	Acetaldehyde	605-003-00-6	75-07-0	D	EU-D 67/548/EEC	C3	
4	Acetamide	616-022-00-4	60-35-5	D	EU-D 67/548/EEC	C3	
5	Acrylamide	616-003-00-0	79-06-1	D	EU-D 67/548/EEC	C2,M2	
6	Acrylonitrile	608-001-00-3	107-13-1	D	EU-D 67/548/EEC	C2	
7	Alkylphenol ethoxylates:			D/P	EU-D 2003/53/EC		
8	Aniline and its salts			D	EU-D 67/548/EEC	T,C3	
9	Antimonytrioxide (Diantimonytrioxide)	051-001-00-X	1309-64-4	D	EU-D 67/548/EEC	C3	
10	Aromatic amines or their salts:4-Aminobiphenyl or its saltsBenzidine or its salts2-Naphthylamine or its salts4-Nitrobiphenyl or its salts	(612-072-00-6) (612-042-00-2) (612-022-00-3) (609-039-00-3)	(92-67-1) (92-87-5) (91-59-8) (92-93-3)	P	EU-D 67/548/EEC EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Annex IV Nr. 2	C1	0.01%
11	Arsenic or its compounds	033-001-00-X	(7440-38-2)	D/P	EU-D 67/548/EEC EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Annex IV Nr. 3	T, C1	0.01% (unless present in metals & alloys, then the declaration limit is 0.05%).
12	Asbestos	650-013-00-6	(1332-21-4) (12001-29-5) (12001-28-4) (12172-73-5)	P	EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Appendix IV Nr. 1	C1	
13	Azo-dyes which can release carcinogenic amines	-		P	EU-D 2002/61/EC	C 1 - 2	30 mg/kg
14	Barium compounds (organic or water soluble)	-	(7440-39-3)	D	EU-D 67/548/EEC TRGS 614, 905	Xn	1%
15	Benzene	601-020-00-8	71-43-2	D/P	EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Appendix IV Nr. 4	C1, M2	0.01%
16	Beryllium or its compounds	(004-001-00-7)	(7440-41-7)	D	EU-D 67/548/EEC	C2	
17	Biocidal coatings / biocidal additives			D	GefStoffV incl. Annex IV Nr. 5		
18	Brominated flame retardants:			D/P	EU-D 2003/11/EEC EU-D 76/769/EEC		0.1% (0.001% for Poly Brominated Biphenyls)
19	Butadiene (1,3 - Butadiene)	601-013-00-X	106-99-0	D	EU-D 67/548/EEC	C1, M2	
20	Cadmium or it's compounds		(7440-43-9)	D/P	EU-D 2000/53/EEC EU-D 67/548/EEC EU-D 76/769/EEC	(C2)	0.01% for impurities, any intentionally introduced content must be reported
21	Carbondisulfide		75-15-0	D/P	EU-D 67/548/EEC	RF3, RE3	
22	Ceramic Fibers (Mineral, Natural or Synthetic)			D	EU-D 67/548/EEC	C2	

Table 3: Reportable Substances in IMDS (Short)

	Substance	EU-INDEX-No.	CAS No.	Classification	Source (Legal requirements, regulations)	Danger / Risk	Threshold (0.1% unless stated otherwise)
23	Chlorinated hydrocarbons:			D/P	EU-D 67/548/EEC		
24	Chlorinated or brominated Dioxins or Furans			P	ChemVerbotsV	T	Content above 10 ppb
25	Chloroaniline	612-010-00-8	106-47-8	D/P	EU-D 67/548/EEC	(C2)	
26	Chloro-fluoro-carbons (CFC) or other Ozone depleting substances	-	-	P	EU-R 594/91/EEC		
27	Chloroparaffines, unbranched (C10-H22nCl _n to C30-H62nCl _n ; n = 1-28)			D/P	EU-D 76/769/EEC		
28	Chromium(VI)-salts	(024-005-00-2)	(14977-61-8)	D/P	EU-D 67/548/EEC EU-D 2000/53/EEC	C2, N	0.1% for impurities, any intentionally introduced content must be reported
29	Cobalt or its compounds	(027-001-00-9)	7440-48-4	D	EU-D 67/548/EEC	Sens, N	
30	Colophony (Rosin)		8050-09-7	D	Solders, adhesives, sealants	Sens	
31	Copper, metallic		7440-50-8	D	No current regulations but SoC in dispersive friction material applications due to environmental impact potential; could be subject to future regulation		
32	Diamino-diphenyl-methane (4,4'-Diaminodiphenylmethane)	612-051-00-1	101-77-9	D	EU-D 67/548/EEC	C2	
33	Dichloropropanole (1,3-Dichloro-2-propanole)	602-064-00-0	96-23-1	D	EU-D 67/548/EEC	C2	
34	Diorganotin compounds (e.g. dialkyltin compounds)			D	EU-D 67/548/EEC	T, N	
35	Ethanol, 2,2',2''-nitrilotris-		102-71-6	D	Norway Bestillingsnr. 463(Risk of N-nitroso compound formation in coolant admixtures)		
36	Ethyl-/ Methyl-Glycols or their Acetates:			D			
37	Formaldehyde	605-001-00-5	50-00-0	D/P	EU-D 67/548/EEC ChemVerbotsV	C3	Threshold is set to 10 mg/kg. Test method is according to VDA 275.
38	Halons:			P			
39	Hexachlorocyclohexane	602-043-00-6	58-89-9	D/P	GefStoffV with Annex IV Nr. 5		
40	Hexamines:			D	Not currently regulated but releasable hexamines are relevant to vehicle interior air quality		
41	Hydrazine	007-008-00-3	302-01-2	D/P	EU-D 67/548/EEC	C2	
42	Hydrobromofluorocarbons; HBFC's:			P	Montreal Protocol; EU Regulation (EC Regulation 2037/2000); US EPA Class I ODS		
43	Hydrochlorofluorocarbons; HCFC's			D/P	Montreal Protocol; EU Regulation (EC Regulation 2037/2000); US EPA Class II ODS		
44	Hydrofluorocarbons; HFC's:			D/P			

Table 3: Reportable Substances in IMDS (Short)

	Substance	EU-INDEX-No.	CAS No.	Classification	Source (Legal requirements, regulations)	Danger / Risk	Threshold (0.1% unless stated otherwise)
45	Hydrogen Sulphide	016-001-00-4	7783-06-4	D		T+	
46	Lead or it's compounds	-	(7439-92-1)	D/P	EU-D 2000/53/EEC EU-D 67/548/EEC	(RF3, RE1), N	0.1% for impurities, any intentionally introduced content must be reported
47	Mercury or its compounds	080-001-00-0	(7439-97-6)	D/P	EU-D 2000/53/EEC EU-D 67/548/EEC EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Annex IV Nr. 7	T+	0.1% for impurities, any intentionally introduced content must be reported
48	Methanol		67-56-1	D/P	Norway, Sweden (SFS 1985:840; SFS 1986:8),Denmark, Finland	T	
49	Methylacrylamidomethoxy-acetate	607-190-00-X	77402-03-0	D	EU-D 67/548/EEC	C2, M2	
50	Monomethyldibromodiphenylmethane	602-071-00-9	99688-47-8	D/P	EU Directive 76/769/EEC	N	
51	Monomethyldichlorodiphenylmethane	607-204-00-4	81161-70-8	D/P	EU Directive 76/769/EEC	N	
52	Monomethyltetrachlorodiphenylmethane	602-072-00-4	76253-60-6	D/P	EU Directive 76/769/EEC	N	
53	N,N-Dimethylformamide	616-001-00-X	68-12-2	D	1999/137/EC 91/689/EEC	RE2	
54	N,N'-ditolyl-p-phenylenediamine		27417-40-9	D/P	Japan (Chemical Substances control Law)		
55	N,N'-dixyl-p-phenylenediamine		28726-30-9	D/P	Japan (Chemical Substances control Law)		
56	Nickel or its compounds	028-002-00-7	(7440-02-0)	D	EU-D 76/769/EEC GefStoffV	CX	
57	Nitrites			D	EU-D 67/548/EECGefStoffV with Annex IV Nr. 19		
58	Nitroso amines			D/P	EU-D 67/548/EECTRGS 552	C2	
59	N-toly-n'-xylyl-p-phenylenediamine		70290-05-0	D/P	Japan (Chemical Substances control Law)		
60	Organotin compounds (see Diorganotins and Triorganotins)			D/P	EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Annex IV Nr. 5 + 8		
61	Pentachlorophenol (PCP) or its salts	604-002-00-8	(87-86-5)	D/P	EU-D 67/548/EEC EU-D 76/769/EEC ChemVerbotsV GefStoffV with Annex IV Nr. 12	T, C3, N	0.0005%
62	Perfluoroalkyl compounds, includes:Perfluoroalkyl sulfonates (e.g. PFOS), fluorotelomers, and telomer-based polymeric substances			D	Certain perfluoroalkyl compounds are increasingly recognised as potentially persistent, bioaccumulative, and toxic chemicals. Since EU and N.American regions are requesting usage data, these compounds are included at this time in order for the automotive industry to gather data/respond to regulatory inquiries.		
63	Phenol	604-001-00-2	108-95-2	D	EU-D 67/548/EEC	T	

Table 3: Reportable Substances in IMDS (Short)

	Substance	EU-INDEX-No.	CAS No.	Classification	Source (Legal requirements, regulations)	Danger / Risk	Threshold (0.1% unless stated otherwise)
64	Phenylendiamines or its salts	612-028-00-6	-	D		T, SensN	
65	Phthalates:		-	D/P			
66	Polycyclic aromatic hydrocarbons (PAH; PCAH)	(601-032-00-3)	-	D/P			see individual thresholds
67	Polybrominated diphenyl ethers (PBDE)			D/P	EU-D 2003/11/EC		
68	Polybrominated Terphenyls (PBT)			D			0.001%
69	Polychlorinated Biphenyls (PCB)	602-039-00-4	(1336-36-3)	P	EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Annex IV Nr. 14		0.005%
70	Polychlorinated Naphthalenes		38289-27-9	D/P	Japan (Chemical Substances control Law)		
71	Polychlorinated Terphenyls (PCT)		(61788-33-8)	P	EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Annex IV Nr. 14		0.001%
72	Pyrotechnical compounds:			D/P	Required to be reported for the purposes of workplace safety compliance and occupant protection		
73	Radioactive substances (including scrap metal contaminants)			D	Strahlenschutzverordnung(StrSchV)		
74	Styrene (Vinyl benzene)	601-026-00-0	100-42-5	D	EU-D 67/548/EEC	Xn	
75	Styrene oxide (Epoxy styrene)	603-084-00-2	96-09-3	D	EU-D 67/548/EEC	C2	
76	Sulfur Hexafluoride		2551-62-4	P	Substance of concern due to global warming potential		
77	Thallium or it's compounds	081-001-00-3	(7440-28-0)	D	EU-D 67/548/EEC	T+	
78	Thioperoxydicarbonic diamide([(H2N)C(S)]2S2), tetramethyl-		137-26-8	D	Japan: (Waste Disposal and Cleaning Law)	M3, Sens	
79	Tri(2-chloroethyl)phosphate	604-018-00-5	115-96-8	D/P	EU-D 67/548/EEC	C3, N	
80	Trichlorophenol or it's salts	(604-017-00-X)	(95-95-4)	D	EU-D 67/548/EEC	(C3)	
81	Trichloropropane (1,2,3 - Trichloropropane)	602-062-00-X	96-18-4	D	EU-D 67/548/EEC	Xn	
82	Trimethylphosphate		512-56-1	D/P	(EU-D 76/769/EEC)		
83	Triorganotin compounds (trialkyl- and triaryl tin compounds)			D/P	EU-D 76/769/EEC EU-D 67/548/EEC ChemVerbotsV GefStoffV incl. Annex IV Nr. 5 + 8 Japanese regulation Law concerning the Examination and Regulation of Manufacture etc. of Chemical Substances	T,N	
84	Triphenylphosphate		115-86-6	D	May be listed under trimethylphosphate and related compounds; Flame retardant under review		

Table 3: Reportable Substances in IMDS (Short)

	Substance	EU-INDEX-No.	CAS No.	Classifi- cation	Source (Legal requirements, regulations)	Danger / Risk	Threshold (0.1% unless stated otherwise)
85	Tris-(1-aziridinyl) phosphine oxide		545-55-1	P	EU-D 83/264/EEC		
86	Tris(2,3-dibromopropyl)phosphate [TRIS]		126-72-7	P	EU-D 79/663/EEC		
87	Vinyl chloride	602-023-00-7	75-01-4	D	EU-D 67/548/EEC	C1	Threshold 0.0005% vinyl chloride monomer in materials

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
1	1-Chloro-2,3-epoxy-propane	603-026-00-6	106-89-8	D	EU-D 67/548/EEC	C2	Residual monomers in epoxy resins	
2	2,4,6-tri-tert-butylphenol		732-26-3	D/P	Japan (Chemical Substances control Law)		Petrochemical products	
3	Acetaldehyde	605-003-00-6	75-07-0	D	EU-D 67/548/EEC	C3	Emitted substance from polymer components	
4	Acetamide	616-022-00-4	60-35-5	D	EU-D 67/548/EEC	C3	Solvent additive, stabilizer for softening agents	
5	Acrylamide	616-003-00-0	79-06-1	D	EU-D 67/548/EEC	C2,M2	Production of polyacrylamide (residual monomer)	
6	Acrylonitrile	608-001-00-3	107-13-1	D	EU-D 67/548/EEC	C2	Production of plastics,resins and rubbers eg. ABS (residual monomer)	
7	Alkylphenol ethoxylates:			D/P	EU-D 2003/53/EC		Surfactants, leather processing	
	3,6,9,12,15,18,21-Heptaoxatricosan-1-ol, 23-(nonylphenoxy)-		(27177-05-5)	D/P				
	Poly(oxy-1,2-ethanediyl), .alpha.- (isononylphenyl)-.omega.-hydroxy-		(37205-87-1)	D/P				
	Polyethylene glycol octylphenol ether		(9002-93-1)	D/P				
	Ethylene oxide-Nonylphenol polymer		(9016-45-9)	D/P				
	Ethoxylated octylphenol		(9036-19-5)	D/P				
8	Aniline and its salts			D	EU-D 67/548/EEC	T,C3	Pigments, sulfonamides, isocyanate - plastics	
	Aniline	612-008-00-7	(62-53-3)	D				
	Aniline chloride	612-009-00-2	(142-04-1)	D				
	Benzenamine sulfate (2:1)		(542-16-5)	D				
	Anilinetrifluoroboron		(660-53-7)	D				
9	Antimonytrioxide (Diantimonytrioxide)	051-001-00-X	1309-64-4	D	EU-D 67/548/EEC	C3	Flame retardant for plastics and rubber/latex, opacifier, friction material component	

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
10	Aromatic amines or their salts:4-Aminobiphenyl or its saltsBenzidine or its salts2-Naphthylamine or its salts4-Nitrobiphenyl or its salts	(612-072-00-6) (612-042-00-2) (612-022-00-3) (609-039-00-3)	(92-67-1) (92-87-5) (91-59-8) (92-93-3)	P	EU-D 67/548/EEC EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Annex IV Nr. 2	C1	Possible impurities in certain colours for natural textiles (production prohibited in Europe)	0.01%
	C.I. Direct brown 95		(16071-86-6)	P		C1	Impurities in textile and leather paints, antioxidants in lubricants, rubber/latex, plastics	
	Dipotassium O,O'-(4,4'-diaminobiphenyl- 3,3'-ylene)diglycollate		(92-67-1)	P				
	4-Nitrodiphenyl		(92-93-3)	P				
	Benzidine sulphate		(21136-70-9)	P				
	[1,1'-Biphenyl]-4,4'-diamine, dihydrochloride		(531-85-1)	P				
	Benzidine salt		(531-86-2)	P				
	3,3'-Dimethylbenzidine dihydrochloride		(612-82-8)	P				
	Benzidine		(92-87-5)	P				
	C.I. Acid black 1		(1064-48-8)	P				
	2-Naphthylamine		(91-59-8)	P				
	N-Phenyl-2-naphthylamine		(135-88-6)	P				
11	Arsenic or its compounds	033-001-00-X	(7440-38-2)	D/P	EU-D 67/548/EEC EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Annex IV Nr. 3	T, C1	Paints, smelted materials, biocides (including wood treatment), leather and textile finishes, glasses, pyrotechnic objects, metal finishes, electronics	0.01% (unless present in metals & alloys, then the declaration limit is 0.05%).
	Digallium arsenide phosphide		(12044-20-1)	D/P				
	Gallium-arsenide		(1303-00-0)	D/P				
	Lead(ii)-arsenate		(10102-48-4)	D/P				
	Potassium-arsonate		(10124-50-2)	D/P				
	Potassium-dihydrogenarsenate		(7784-41-0)	D/P				
	Trilead-diarsenate		(3687-31-8)	D/P				
12	Asbestos	650-013-00-6	(1332-21-4) (12001-29-5) (12001-28-4) (12172-73-5)	P	EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Appendix IV Nr. 1	C1	Friction pads, gaskets, insulations	Restriction not limited to listed compounds

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
13	Azo-dyes which can release carcinogenic amines	-		P	EU-D 2002/61/EC	C 1 - 2	In dyes for textiles etc.	Azodyes which may release one or more of the aromatic amines listed at concentrations above 30 ppm in finished articles
	4-Aminodiphenyl		92-67-1	P				
	Benzidine		92-87-5	P				
	4-Chloro-o-toluidine		95-69-2	P				
	2-Naphthylamine		91-59-8	P				
	o-Aminoazotoluene		97-56-3	P				
	5-Nitro-o-toluidine		99-55-8	P				
	4-Chloraniline		106-47-8	P				
	4-Methoxy-m-phenylenediamine		615-05-4	P				
	4,4'-Methylenedianiline		101-77-9	P				
	3,3'-Dichlorbenzidine		91-94-1	P				
	3,3'-Dimethoxybenzidine		119-90-4	P				
	3,3'-Dimethylbenzidine		119-93-7	P				
	4,4'-Methylenedi-o-toluidine		838-88-0	P				
	p-Cresidine		120-71-8	P				
	4,4'-Methylene-bis-(2-chloroaniline)		101-14-4	P				
	4,4'-Oxydianiline		101-80-4	P				
	4,4'-Thiodianiline		139-65-1	P				
	o-Toluidine		95-53-4	P				
	4-Methyl-m-phenylenediamine		95-80-7	P				
	2,4,5-Trimethylaniline		137-17-7	P				
	o-Anisidine		90-04-0	P				

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
14	Barium compounds (organic or water soluble)	-	(7440-39-3)	D	EU-D 67/548/EEC TRGS 614, 905	Xn	Colour pigments, stabilizers for PVC, lubricant additives	1%
	Barium 2-ÿ(2-hydroxy-3,6-disulphonato-1-naphthyl)azöbenzoate (3:2)		(15782-06-6)	D				Restriction not limited to listed compounds
	Barium 4-(1,1-dimethylethyl)benzoate		(10196-68-6)	D				
	Barium 4-ÿ(5-chloro-4-methyl-2-sulphonatophenyl)azö-3-hydroxy-2-naphthoate		(7585-41-3)	D				
	Barium bis(2-ethylhexanoate)		(2457-01-4)	D				
	Barium bis(dinonylnaphthalenesulphonate)		(25619-56-1)	D				
	Barium bis(nonylphenolate)		(28987-17-9)	D				
	Barium bisÿ5-chloro-4-ethyl-2-ÿ(2-hydroxy-1-naphthyl)azöbenzenesulp...		(67801-01-8)	D				
	Barium distearate		(6865-35-6)	D				
	Barium oxide, obtained by calcining witherite		(1304-28-5)	D				
	Barium(2+) hydrogen 2-ÿ(2-hydroxy-3,6-disulphonato-1-naphthyl)azöbenzoate		(1325-16-2)	D				
	Barium-chlorate		(13477-00-4)	D				
	Barium-chloride		(10361-37-2)	D				
	Barium-cyanide		(542-62-1)	D				
	Barium-dilaurate		(4696-57-5)	D				
	Barium-dioleate		(591-65-1)	D				
	Barium-dodecairon-nonadecaoxide		(12047-11-9)	D				
	Barium-fluoride		(7787-32-8)	D				
	Barium-hydroxide		(17194-00-2)	D				
	Barium-hydroxide-octahydrate		(12230-71-6)	D				
	Barium-neodecanoate		(55172-98-0)	D				
	Barium-nitrate		(10022-31-8)	D				
	Barium-perchlorate		(13465-95-7)	D				
	Barium-permanganate		(7787-36-2)	D				
	Barium-peroxide		(1304-29-6)	D				
	Barium-sebacate		(19856-32-7)	D				
15	Benzene	601-020-00-8	71-43-2	D/P	EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Appendix IV Nr. 4	C1, M2	Fuel constituent, raw material/contaminant in other chemicals	0.01%

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Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
16	Beryllium or its compounds	(004-001-00-7)	(7440-41-7)	D	EU-D 67/548/EEC	C2	Electric contacts, relays and switches; electronics	Restriction not limited to listed compounds
17	Biocidal coatings / biocidal additives			D	EU-D 98/8/EC EU-D 76/769/EEC		Biocidal and biostatic treatments of polymers, textiles, and other components susceptible to microbiological attack (e.g. mobile air conditioning systems)	Restriction not limited to listed compounds
	Isothiazolinones, e.g. 1,2-Benzisothiazoline-3-one		(2634-33-5)	D D	EU-D 67/548/EC Swedish OBS-List	Sens	Polymers, aqueous-based products etc.	
18	Brominated flame retardants:			D	EU-D 2003/11/EEC EU-D 76/769/EEC			
	Tetrabromobisphenol A (TBBPA)		79-94-7	D				0.10%
	TBBA (Poly-4, 4'-isopropylidenebis (2, 6-dibromophenyl) carbonate)		28774-93-8	D				0.10%
	Carbonic dichloride, polymer with 4,4'-(1-methylethylidene)bis[2,6-dibromophenol] and phenol (TBBPA+derivate)		94334-64-2	D D				0.10% 0.10%
	Tribromobisphenol A		6386-73-9	D				0.10%
	Tetrabromobisphenol A		30496-13-0	D				0.10%
	Tetrabromobisphenol A - bis-2,3- dibromopropyl ether		21850-44-2	D				0.10%
	Carbonic dichloride, polymer with 4,4'-(1-methylethylidene)bis[2,6-dibromophenol], 2,4,6-tribromophenyl ester		71342-77-3	D				0.10%
	TBBPA carbonate oligomer		32844-27-2	D				0.10%
	Cyclododecane, hexabromo- (HBCD)		25637-99-4	D				0.10%
	Polybrominated Biphenyls (PBB)		(59536-65-1)	P				0.001%
19	Butadiene (1,3 - Butadiene)	601-013-00-X	106-99-0	D	EU-D 67/548/EEC	C1, M2	Manufacturing of synthetic rubber for tyres, as homopolymerisate (BR), as copolymerisate with Styrene (SBR) or Acrylonitrile (NR), starting product of Sulfolane, Chloroprene, Hexadamine, softeners, Tetrahydrophthalic acid anhydride, residual monomer in ABS	

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
20	Cadmium or it's compounds		(7440-43-9)	D/P	EU-D 2000/53/EEC EU-D 67/548/EEC EU-D 76/769/EEC	(C2)	Surface protection of metals, stabilizers in polymers, pigments, in paints and plastics	0.01% for impurities, any intentionally introduced content must be reported
	Cadmium di(acetate)		(543-90-8)	D/P				Restriction not limited to listed compounds
	Cadmium distearate		(2223-93-0)	D/P				
	Cadmium hexafluorosilicate(2-)		(17010-21-8)	D/P				
	Cadmium selenide sulfide		(12626-36-7)	D/P				
	Cadmium sulfate (1:1) hydrate (3:8)		(7790-84-3)	D/P				
	Cadmium(ii) nitrate, tetrahydrate (1:2:4)		(10022-68-1)	D/P				
	Cadmium-carbonate		(513-78-0)	D/P				
	Cadmium-chloride		(10108-64-2)	D/P				
	Cadmium-cyanide		(542-83-6)	D/P				
	Cadmium-fluoride		(7790-79-6)	D/P				
	Cadmium-iodide		(7790-80-9)	D/P				
	Cadmium-nitrate		(10325-94-7)	D/P				
	Cadmium-oxide		(1306-19-0)	D/P				
	Cadmium-sulphate		(10124-36-4)	D/P				
	Cadmium-sulphide		(1306-23-6)	D/P				
	Cadmium-telluride		(1306-25-8)	D/P				
	Cadmium-zinc-sulphide		(12442-27-2)	D/P				
21	Carbondisulfide		75-15-0	D/P	EU-D 67/548/EEC	RF3, RE3	Emitted substance from vulcanized elastomers	
22	Mineral fibres (Natural or Synthetic)			D	EU-D 67/548/EEC	(C2)	Friction lining, screens, re-enforcements, insulation, cables	
	Ceramic Fibers			D		(C2)	Catalyst mesh reinforcements	

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
23	Chlorinated hydrocarbons:			D/P	EU-D 67/548/EEC			
	Tetrachloromethane (Tetrachlorocarbon)		56-23-5	D/P				
	1,1,2,2 Tetrachloroethane		79-34-5	D/P				
	1,1,1,2 Tetrachloroethane		630-20-6	D/P				
	Pentachloroethane		76-01-7	D/P				
	Trichloromethane (Chloroform)		67-66-3	D/P				
	1,1,2 Trichloroethane		79-00-5	D/P				
	1,1 Dichloroethylene		75-35-4	D/P				
	1,1,1 Trichloroethane		71-55-6	D/P				
	Dichloromethane		75-09-2	D/P				
	Trichloroethylene		79-01-6	D/P				
	Tetrachloroethylene		127-18-4	D/P				
24	Chlorinated or brominated Dioxins or Furans			P	ChemVerbotsV	T	Impurities in products	Content above 10 ppb
25	Chloroaniline	612-010-00-8	106-47-8	D/P	EU-D 67/548/EEC	(C2)	Hardener or cross linking agent for polymers and epoxy resins	
26	Chloro-fluoro-carbons (CFC) or other Ozone depleting substances	-	-	P	EU-R 594/91/EEC		Coolants, propellants, cleaners, solvents, impregnating agents, blowing agents (PU production)	
27	Chloroparaffines, unbranched (C10-H22nCl _n to C30-H62nCl _n ; n = 1-28)			D/P	EU-D 76/769/EEC		Flame retarding substances	

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
28	Chromium(VI)-salts	(024-005-00-2)	(14977-61-8)	D/P	EU-D 67/548/EEC EU-D 2000/53/EEC	C2, N	Chromium pigments, chromated surfaces e.g. "Chromium Yellow", corrosion inhibitors, residues from dyeing and leather tanning.	0.1% for impurities, any intentionally introduced content must be reported
	Ammonium-chromate		(7788-98-9)	D/P				
	Ammonium-dichromate		(7789-09-5)	D/P				
	Barium-chromate		(0294-40-3)	D/P				
	Calcium-chromate		(13765-19-0)	D/P				
	Chromic-acid		(7738-94-5)	D/P				
	Chromium, ion (Cr6+)		(18540-29-9)	D/P				
	Chromium-trioxide		(1333-82-0)	D/P				
	Chromyl-dichloride		(14977-61-8)	D/P				
	Dilead-chromate-oxide		(18454-12-1)	D/P				
	Lead chromate		(7758-97-6)	D/P				
	Lead chromate molybdate sulfate red		(12656-85-8)	D/P				
	Magnesium-chromate		(13423-61-5)	D/P				
	Potassium hydroxyoctaoxidizincatedichromate		(11103-86-9)	D/P				
	Potassium-chromate		(7789-00-6)	D/P				
	Potassium-dichromate		(7778-50-9)	D/P				
	Sodium-chromate		(7775-11-3)	D/P				
	Sodium-dichromate		(10588-01-9)	D/P				
	Strontium-chromate		(7789-06-2)	D/P				
	Zinc chromates including zinc potas- sium chromate		(1328-67-2)	D/P				
	Zinc yellow		(37300-23-5)	D/P				
	Zinc chromate		(13530-65-9)	D/P				
	Zinc dichromate		(14018-95-2)	D/P				

Restriction not limited to
listed compounds

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
29	Cobalt or its compounds	(027-001-00-9)	7440-48-4	D	EU-D 67/548/EEC	Sens, N	Hard metals, galvanic Zn-Co-plating, element in metals	Cobalt compounds and alloys, excluding cobalt in steels
	2-ethylhexanoic acid, cobalt salt		(13586-82-8)	D				Restriction not limited to listed compounds
	Aluminum-cobalt-oxide		(12672-27-4)	D				
	Cobalt bis(2-ethylhexanoate)		(136-52-7)	D				
	Cobalt titanium trioxide		(12017-01-5)	D				
	Cobalt(II) nitrate hexahydrate		(10026-22-9)	D				
	Cobalt(II) nitrate hexahydrate		(10026-22-9)	D				
	cobalt, di-mu-carbonylhexacarbonyldi-, (co-co)		(10210-68-1)	D				
	Cobalt-acetate		(5931-89-5)	D				
	Cobalt-dichloride		(7646-79-9)	D				
	Cobalt-dinitrate		(10141-05-6)	D				
	Cobalt-di octanoate		(1588-79-0)	D				
	Cobalt-oxide		(1307-96-6)	D				
	Cobalt-sulfate-heptahydrate		(10026-24-1)	D				
	Cobalt-sulphide		(1317-42-6)	D				
	Cobaltate(2-), [6-amino-5-[(2-hydroxy-4-nitro- phenyl)azo]-N-methyl-2-naphthalenesulfon- amidato(2-)] [6-amino-5-[(2-hydroxy-4-nitro- phenyl)azo]-2-naphthalenesulfonato(3-)]-, disodium		(75314-27-1)	D				
	Naphthenic acids, cobalt salts		(61789-51-3)	D				
	Neodecanoic acid, cobalt salt		(27253-31-2)	D				
	Octanoic acid, cobalt salt		(6700-85-2)	D				
	Cobaltate(1-), bis[3-[[1-(3-chlorophenyl)-4,5- dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4- hydroxybenzenesulfonamidato(2-)]-, sodium		(73612-40-5)	D				
	Cobaltate(1-), bis[N-(2-chlorophenyl)-2-[[2- hydroxy-5-[(methylamino)sulfonyl]phenyl]azo]-3- oxobutanamidato(2-)]-, sodium		(70247-74-4)	D				
	Cobaltate(4-), bis[2-[[[3-[[1-[[[2- chlorophenyl]amino]carbonyl]-2-oxo- propyl]azo]-4-hydroxyphenyl]sulfonyl]amino]ben- zoato(3-)]-, tetrasodium		(70851-34-2)	D				
	Tricobalt bis(orthophosphate)		(13455-36-2)	D				
	Tricobalt-tetraoxide		(1308-06-1)	D				

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
30	Colophony (Rosin)		8050-09-7	D	Solders, adhesives, sealants	Sens		
31	Copper (metallic)		7440-50-8	D	No current regulations but substance of concern in dispersive friction material applications due to environmental impact potential; could be subject to future regulation			
32	Diamino-diphenylmethane (4,4'-Diamin- odiphenylmethane)	612-051-00-1	101-77-9	D	EU-D 67/548/EEC	C2	Preliminary and intermediate product of resins, adhesives, dyes, curing agent, accelerator.	
33	Dichloropropanol (1,3-Dichloro-2-propanol)	602-064-00-0	96-23-1	D	EU-D 67/548/EEC	C2	Solvent for anti-wrinkle agents and flame retardants in textiles, and in the production of epoxy resins	
34	Diorganotin compounds (e.g. dialkyltin compounds)			D	EU-D 67/548/EEC	T, N	Stabilizer for polymers	
35	Ethanol, 2,2',2''-nitrilotris- (Triethanolamine)		102-71-6	D	Norway Bestillingsnr. 463(Risk of N-nitroso compound formation in coolant admixtures)		Coolant component	
36	Ethyl-/ Methyl-Glycols or their Acetates:			D				
	2-Methoxyethanol	603-011-00-4	109-86-4	D/P	EU-D 67/548/EEC TRGS 609	RF2, RE2	Solvent for cellulose esters, waxes, dyes, PES- and PU-Enamels, synthetic resins, softening agents in polyester resins, PES-fibers, Polyvinylalcohol, Polyvinylpyrrolidone	
	2-Methoxyethyl acetate	607-036-00-1	110-49-6	D/P				
	2-Ethoxyethanol	603-012-00-X	110-80-5	D/P				
	2-Ethoxyethyl acetate	607-037-00-7	111-15-9	D/P				
37	Formaldehyde	605-001-00-5	50-00-0	D/P	EU-D 67/548/EEC ChemVerbotsV	C3	Residues and degradation products of plastics (aminoplasts, urea- and melamine resins, foam plastics, vulcanization accelerators, basis for synthetic tannins, biocides, adhesives, formed woods	Threshold is set to 10 mg/kg. Test method is according to VDA 275.
38	Halons:			P	EU-R 594/91/EEC		Fire extinguishers	
	Bromochlordifluoromethane (Halon 1211)		353-59-3	P				Restriction not limited to listed compounds
	Bromotrifluoromethane (Halon 1301)		74-83-9	P				
	Dibromotetrafluoroethane (Halon 2402)		124-73-2	P				
	Chlorobromomethane (Halon 1011)		74-97-5	P				
39	Hexachlorocyclohexane	602-043-00-6	58-89-9	D/P	GefStoffV with Annex IV Nr. 5		Insecticide, substance in wood protecting compounds	Prohibited in Antifouling paints for boatsListing of Biocides in VDA-List currently under discussion

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
40	Hexamines:			D	Not currently regulated but releasable hexamines are relevant to vehicle interior air quality			
	Hexamethylenetetramine		(100-97-0)	D				Restriction not limited to listed compounds
	2-Ethylhexylamine		(104-75-6)	D				
	Di(2-ethylhexyl)amine		(106-20-7)	D				
41	Hydrazine	007-008-00-3	302-01-2	D/P	EU-D 67/548/EEC	C2	Residual monomers in plastics, pigments and adhesives, antioxidants stabilizing of Amines, Phenols, in oils, greases, natural latex; blowing agents for foamed plastics	
42	Hydrobromofluorocarbons; HBFC's:			P	Montreal Protocol; EU Regulation (EC Regulation 2037/2000); US EPA Class I ODS			
	Ethane, 1,2-dibromo-1,1,2-trifluoro-		(354-04-1)	P				Restriction not limited to listed compounds
	Ethene, 2-bromo-1,1-difluoro-		(359-08-0)	P				
	2-Bromo-1,1,1-trifluoroethane		(421-06-7)	P				
	1,2-Dibromo-1,1-difluoroethane		(75-82-1)	P				
	1-Bromo-2-fluoroethane		(762-49-2)	P				

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
43	Hydrochlorofluorocarbons; HCFC's			D/P	Montreal Protocol; EU Regulation (EC Regulation 2037/2000); US EPA Class II ODS			
	1,2-Dichloro-1,1-difluoroethane		(1649-08-7)	D/P				Restriction not limited to listed compounds
	Ethane, 1,1-dichloro-1-fluoro-		(1717-00-6)	D/P				
	Ethane, 1,1,1-trichloro-2-fluoro-		(2366-36-1)	D/P				
	Ethane, 2-chloro-1,1,1,2-tetrafluoro-		(2837-89-0)	D/P				
	Ethane, 2-chloro-1,1,1,2-tetrafluoro-		(2837-89-0)	D/P				
	Ethane, 2,2-dichloro-1,1,1-trifluoro-		(306-83-2)	D/P				
	Ethane, 1-chloro-1,2-difluoro-		(338-64-7)	D/P				
	Ethane, monochlorodifluoro-		(338-65-8)	D/P				
	Ethane, 1,2-difluoro-1,1,2-trichloro-		(354-15-4)	D/P				
	1,2,2-Trichloro-1,1-difluoroethane		(354-21-2)	D/P				
	1-Chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)		(354-25-6)	D/P				
	Ethane, 1,1,2-trichloro-2-fluoro-		(359-28-4)	D/P				
	1,2-Dichloro-1-fluoroethane		(430-57-9)	D/P				
	1,2-Dichloro-1,2-difluoroethane		(431-06-1)	D/P				
	Chlorofluoromethane		(593-70-4)	D/P				
	Dichlorofluoromethane		(75-43-4)	D/P				
	Chlorodifluoromethane		(75-45-6)	D/P				
	1-Chloro-1,1-difluoroethane		(75-68-3)	D/P				
	Ethane, 1,1,2-trichloro-1-fluoro-		(811-95-0)	D/P				

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
44	Hydrofluorocarbons; HFC's:			D/P			Applications = tyre inflators, air con, solvent blowing	
	Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro-		(138495-42-8)	D/P				Restriction not limited to listed compounds
	Butane, 1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxy-		(163702-07-6)	D/P				
	Ethane, pentafluoro-		(354-33-6)	D/P				
	Difluoromethane		(75-10-5)	D/P				
	1,1-Difluoroethane		(75-37-6)	D/P				
	Vinylidene fluoride		(75-38-7)	D/P				
	Trifluoromethane		(75-46-7)	D/P				
	1,1,1,2-Tetrafluoroethane		(811-97-2)	D/P				
45	Hydrogen Sulphide	016-001-00-4	7783-06-4	D		T+	Emitted products during vulcanization process	

[illegible][illegible]

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classification	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
47	Mercury or its compounds	080-001-00-0	(7439-97-6)	D/P	EU-D 2000/53/EEC EU-D 67/548/EEC EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Annex IV Nr. 7	T+	Metallic mercury, and inorganic and organic mercury compounds used in high intensity discharge (HID) lamps, electric switches, luminescent material for instrument lighting, pyrotechnic initiators etc.	0.1% for impurities, any intentionally introduced content must be reported
	(Neodecanoato-o)phenylmercury		(26545-49-3)	D/P				
	1-cyano-3-(methylmercurio)guanidine		(502-39-6)	D/P				
	2-methoxyethylmercury chloride		(123-88-6)	D/P				
	Chloromethylmercury		(115-09-3)	D/P				
	Diethylmercury		(627-44-1)	D/P				
	Dimercury-dichloride		(10112-91-1)	D/P				
	Dimercury-dicyanide-oxide		(1335-31-5)	D/P				
	Dimethylmercury		(593-74-8)	D/P				
	Dipotassium-tetracyanomercurate		(591-89-9)	D/P				
	Dipotassium-tetraiodomercurate		(7783-33-7)	D/P				
	Mercury		(7439-97-6)	D/P				
	Mercury-dichloride		(7487-94-7)	D/P				
	Methylmercury		(22967-92-6)	D/P				
	Phenylmercury hydroxide-phenylmercury nitrate		(8003-05-2)	D/P				
	Phenylmercury-acetate		(62-38-4)	D/P				
48	Methanol		67-56-1	D/P	Norway, Sweden (SFS 1985:840; SFS 1986:8),Denmark, Finland	T	Window Washer fluid applications	
49	Methylacrylamidomethoxy-acetate	607-190-00-X	77402-03-0	D	EU-D 67/548/EEC	C2, M2	production of polymers	
50	Monomethyldibromodiphenylmethane	602-071-00-9	99688-47-8	D/P	EU Directive 76/769/EEC	N	Residues and decomposition products in production of polymers	
51	Monomethyldichlorodiphenylmethane	607-204-00-4	81161-70-8	D/P	EU Directive 76/769/EEC	N	Residues and decomposition products in production of polymers	
52	Monomethyltetrachlorodiphenylmethane	602-072-00-4	76253-60-6	D/P	EU Directive 76/769/EEC	N	Residues and decomposition products in manufacture of polymers	
53	N,N-Dimethylformamide	616-001-00-X	68-12-2	D	1999/137/EC 91/689/EEC	RE2		
54	N,N'-ditolyl-p-phenylenediamine		27417-40-9	D/P	Japan (Chemical Substances control Law)		Petrochemical additive	
55	N,N'-dixyl-l-p-phenylenediamine		28726-30-9	D/P	Japan (Chemical Substances control Law)		Petrochemical additive	

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
56	Nickel or its compounds	028-002-00-7	(7440-02-0)	D	EU-D 76/769/EEC GefStoffV	(C1), (C3), Sens, N	Welding electrodes, flame spraying, special materials, component in metals	
	Bis(diethyldithiocarbamato-s,s')nickel		(14267-17-5)	D				
	Bis(diisobutyldithiocarbamato)nickel		(15317-78-9)	D				
	Bis(2,3-bis(hydroxyimino)-n-phenylbu- tyramidato-n2,n3)nickel		(29204-84-0)	D				
	Dinickel-trioxide		(1314-06-3)	D				
	Nickel bis(dibutyldithiocarbamate)		(13927-77-0)	D				
	Nickel bis(dihydrogen phosphate)		(18718-11-1)	D				
	Nickel bis(dimethyldithiocarbamate)		(15521-65-0)	D				
	Nickel bis(sulphamidate)		(13770-89-3)	D				
	Nickel di(acetate)		(373-02-4)	D				
	Nickel(II) stearate		(2223-95-2)	D				
	Nickel(ii) chloride, hexahydrate (1:2:6)		(7791-20-0)	D				
	Nickel(II) nitrate hexahydrate		(13478-00-7)	D				
	Nickel(II)sulfate hexahydrate		(10101-97-0)	D				
	Nickel-carbonate		(3333-67-3)	D				
	Nickel-dichloride		(7718-54-9)	D				
	Nickel-difluoride		(10028-18-9)	D				
	Nickel-dihydroxide		(12054-48-7)	D				
	Nickel-dinitrate		(13138-45-9)	D				
	Nickel-dioxide		(12035-36-8)	D				
	Nickel-monoxide		(1313-99-1)	D				
	Nickel-sulphate		(7786-81-4)	D				
	Nickel-sulphide		(16812-54-7)	D				
	Tetracarbonylnickel		(13463-39-3)	D				
	Trinickel bis(orthophosphate)		(10381-36-9)	D				
	Trinickel-disulphide		(12035-72-2)	D				
							Restriction not limited to listed compounds	

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
57	Nitrites			D	EU-D 67/548/EECGefStoffV with Annex IV Nr. 19		Additives in engine coolants, vulcanising agents in rubber products, anticorrosion surface additive. Reaction product precursor for potentially carcinogenic N-nitroso- compounds	
58	N-Nitrosamines			D/P	EU-D 67/5487EECTGRS 552	C2		
	N-Nitroso diethanol amine		(1116-54-7)	D/P				
	N-Nitroso diethyl amine		55-18-5	D/P				
	N-Nitrosodi-i-propyl amine		(601-77-4)	D/P				
	N-Nitroso dimethyl amine		62-75-9	D/P				
	N-Nitrosodi-n-propyl amine		(621-64-7)	D/P				
	N-Nitroso ethyl phenyl amine		(612-64-6)	D/P				
	N-Nitroso methyl ethyl amine		(10595-95-6)	D/P				
	N-Nitroso methyl phenyl amine		(614-00-6)	D/P				
	N-Nitroso morpholine		(59-89-2)	D/P				
	N-Nitrosopiperidine		(100-75-4)	D/P				
	N-Nitroso pyrrolidine		(930-55-2)	D/P				
59	N-toly-N'-xylyl-p-phenylenediamine		70290-05-0	D/P	Japan (Chemical Substances control Law)		Oil	
60	Organotin compounds (see Diorganotins and Triorganotins)							
61	Pentachlorophenol (PCP) or its salts	604-002-00-8	(87-86-5)	D/P	EU-D 67/548/EEC EU-D 76/769/EEC ChemVerbotsV GefStoffV with Annex IV Nr. 12	T, C3, N	Wood preservative, salts used in leather treatment, stabilizer for latex	0.0005% Restriction not limited to listed compounds
	Sodium Pentachlorophenate		(131-52-2)	P				
	Potassium pentachlorophenate		(7778-73-6)	P				
	Zinc bis(pentachlorophenolate)		(2917-32-0)	P				

Restriction not limited to
listed compounds

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
62	Perfluoroalkyl compounds, includes:Perfluoroalkyl sulfonates (e.g. PFOS), fluorotelomers, and telomer-based polymeric substances			D	Certain perfluoroalkyl compounds are increasingly recognised as potentially persistent, bioaccumulative, and toxic chemicals. Since EU and N.American regions are requesting usage data, these compounds are included at this time in order for the automotive industry to gather data/respond to regulatory inquiries.		Surface coatings	Restriction not limited to listed compounds
	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt		(2991-51-7)	D				Restriction not limited to listed compounds
	Perfluorooctanoic acid sodium salt 2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)-sulfonyl]amino]ethyl acrylate and vinylidene chloride		(335-95-5) (306975-62-2)	D DD				
63	Phenol	604-001-00-2	108-95-2	D	EU-D 67/548/EEC	T	Residual monomer in phenolic resins, epoxy resins, anti-oxidant in phenol derivatives, decomposition product in polymeric materials, wooden materials and textiles	
64	Phenylendiamines or its salts	612-028-00-6	-	D	EU-D 67/548/EEC EU-D 76/769/EEC	T, SensN	Dyes, chemical intermediate	
	Phenylendiamine		(25265-76-3)	D				Restriction not limited to listed compounds
	o-phenylendiamine		(95-54-5)	D				
	o-phenylendiamine dihydrochloride		(615-28-1)	D				
	m-phenylendiamine		(108-45-2)	D				
	m-phenylendiamine dihydrochloride		(541-69-5)	D				
	p-Phenylendiamine		(624-18-0)	D				
65	Phthalates:		-	D	EU-D 67/548/EEC			
	Benzylbutylphthalate (BBP)		85-68-7	D/P				Restriction not limited to listed compounds
	Di(2-ethylhexyl)phthalate (DEHP)		117-81-7	D/P				
	Bis(2-methoxyethyl)phthalate		117-82-8	D				
	Dibutylphthalate (DBP)		84-74-2	D				
	Diisopentylphthalate (DIPP)		605-50-5	D				
	Dipentylphthalate		131-18-0	D				

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
66	Polycyclic aromatic hydrocarbons (PAH; PCAH)	(601-032-00-3)	-	D/P				
	Benzo(a)pyrene		50-32-8	D/P	EU-D 67/548/EECHazardous Materials Ordinance GermanyTRGS 905	(C2, M2) RF2, RE2	Contaminants of mineral oils, including process oils used for tyre manufacture; soot, tar	1 ppm
	Benzo(e)pyrene		192-97-2	D/P				10 ppm
	Benzo(a)anthracene		26-55-3	D/P				10 ppm
	Chrysene		218-01-9	D/P				10 ppm
	Benz(b)fluoranthene		205-99-2	D/P				10 ppm
	Benz(j)fluoranthene		205-82-3	D/P				10 ppm
	Benz(k)fluoranthene		207-08-9	D/P				10 ppm
	Dibenz(a,h)anthracene		53-70-3	D/P				10 ppm
	Benz(e)acephenanthrylene		205-99-2	D/P				10 ppm
	Benzo(g,h,i)perylene		191-24-2	D/P				10 ppm
	Indeno 1,2,3-cd-pyrene		193-39-5	D/P				10 ppm
	Naphthalene		91-20-3	D/P				10 ppm
67	Polybrominated diphenyl ethers (PBDE)				EU-D 2003/11/EC			
	Pentabromodiphenyl ether ('Penta')		32534-81-9	P			Flame retardants in polymers, textiles etc.	Restriction not limited to listed compounds
	Octabromodiphenyl ether ('Octa')		32536-52-0	P				
	Decabromodiphenyl ether ('Deca'; Decabromodiphenyl oxide)		1163-19-5	D/P				
68	Polybrominated Terphenyls (PBT)			P			Flame retardants in plastics and textiles.	0.001%
69	Polychlorinated Biphenyls (PCB)	602-039-00-4	(1336-36-3)	P	EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Annex IV Nr. 14		Insulation fluid in electrical systems, switch boards transformers and condensers, in wood and paper impregnation, as a softening agent	0.005%
70	Polychlorinated Naphthalenes		38289-27-9	D/P	Japan (Chemical Substances control Law)		Petrochemical additive	
71	Polychlorinated Terphenyls (PCT)		(61788-33-8)	P	EU-D 76/769/EEC ChemVerbotsV GefStoffV incl. Annex IV Nr. 14		Insulation fluid in electrical systems, switch boards transformers and condensers, in wood and paper impregnation, as a softening agent	0.001%

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
72	Pyrotechnical compounds			D	Required to be reported for the purposes of workplace safety compliance and occupant protection		Any pyrotechnic compound used as an initiator, booster, propellant or gas generator in vehicle pyrotechnic devices (e.g. airbags and pretensioners). Including but not limited to: sodium azide; nitrocellulose, and other nitrogenous compounds such as nitrates; perchlorates; metal salt initiators; and pyrophoric metals and their compounds (including aluminium and zirconium)	
	Sodium azide		(26628-22-8)	D/P				Restriction not limited to listed compounds
	Nitrocellulose		(9004-70-0)	D				
	Ammonium Perchlorate		(7790-98-9)	D				
73	Radioactive substances (including scrap metal contaminants)			D	Strahlenschutzverord- nung(StrSchV)		High intensity discharge lamps	
74	Styrene (Vinyl benzene)	601-026-00-0	100-42-5	D	EU-D 67/548/EEC	Xn	Residual monomer in ABS-, Polystyrene-, SMC-, UPE-resin	
75	Styrene oxide (Epoxy styrene)	603-084-00-2	96-09-3	D	EU-D 67/548/EEC	C2	Residual monomer	
76	Sulfur Hexafluoride		2551-62-4	P	Substance of concern due to global warming potential		Vehicle applications (e.g. tire inflator systems)	
77	Thallium or it's compounds	081-001-00-3	(7440-28-0)	D	EU-D 67/548/EEC	T+	Electric components, sensors	
78	Thioperoxydicarbonic diamide(((H2N)C(S))2S2), tetramethyl-		137-26-8	D	Japan:(Waste Disposal and Cleaning Law)	M3, Sens	Vulcanization accelerator for rubber	
79	Tris(2-chloroethyl)phosphate	604-018-00-5	115-96-8	D/P	EU-D 67/548/EEC	C3, N	Flame retardant	
80	Trichlorophenol or it's salts	(604-017-00-X)	(95-95-4)	D	EU-D 67/548/EEC	(C3)	Biocide (e.g. preservative for leather and textiles)	
	2,4,6 -Trichlorophenol	604-018-00-5	88-06-2	D	EU-D 67/548/EEC	C3, N		
81	Trichloropropane (1,2,3 - Trichloropropane)	602-062-00-X	96-18-4	D	EU-D 67/548/EEC	Xn	As solvent and as trifunctional cross-linking agent e.g. for polysulphide elastomers	
82	Trimethylphosphate		512-56-1	D/P	(EU-D 76/769/EEC)		Flame retardant	
83	Triorganotin compounds (trialkyl- and triaryltin compounds)			D/P	EU-D 76/769/EEC EU-D 67/548/EEC ChemVerbotsV GefStoffV incl. Annex IV Nr. 5 + 8 Japanese regulation Law con- cerning the Examination and Regulation of Manufacture etc. of Chemical Substances	T,N	Biocides	
	Distannoxane, hexabutyl- (TBTO) Tributyltin methoxide		(56-35-9) (1067-52-3)	D/P D/P				Restriction not limited to listed compounds

Table 4: Reportable Substances in IMDS (Long)

	Substance	EU-INDEX-No.	CAS No.	Classifica- tion	Source (Legal requirements, regulations)	Danger / Risk	Examples for usage / existence. (Note: this does not exempt other applications)	Threshold
84	Triphenylphosphate		115-86-6	D	May be listed under trimethylphosphate and related compounds; Flame retardant under review		Flame retardant	
85	Tris-(1-aziridinyl) phosphine oxide		545-55-1	P	EU-D 83/264/EEC		Flame retardant	
86	Tris(2,3-dibromopropyl)phosphate [TRIS]		126-72-7	P	EU-D 79/663/EEC		Flame retardant	
87	Vinyl chloride	602-023-00-7	75-01-4	D	EU-D 67/548/EEC	C1	Residual monomer in polymers	Threshold 0.0005% vinyl chloride monomer in materials

4 Manufacturing Process

Not applicable.

5 Rules and Regulations

5.1 Rules and Regulations for Material Specifications. All materials supplied to this specification must comply with the requirements of GMW3001, **Rules and Regulations for Material Specifications.**

6 Approved Sources

Not applicable.

7 Coding System

This material specification shall be referenced in other documents, drawings, VTS, CTS, etc. as follows:

Restricted and Reportable Substances for Parts per GMW3059

8 Release and Revisions

8.1 Release. This material specification originated in May 1998 and was approved and first published in March 1999.

8.2 Revisions

Rev.	Date	Description (Organization)
A	JUL 1999	Revised contact list (GM)
B	JUN 2000	Updated tables; document reformatted (GM)
C	DEC 2000	Revision in tables (GM)

Rev.	Date	Description (Organization)
D	AUG 2002	Revision in tables: Add Acetaldehyde, Benzene, Chloroform, Diacetone alcohol, 1,1 Dichloroethylene, HCFC225ca, HCFC225cb, Hydrobromofluorocarbons, Mesityl Oxide, Methyl Bromide, Methylene Chloride, Pentachloroethane, Perchloroethylene, Tetrabromobisphenol-A, 1,1,2,2 Tetrachloroethane, 1,1,1,2 Tetrachloroethane, Tin mercaptans, Trichloroethylene. Change threshold on Lead and Formaldehyde. Change date on Hexavalent Chromium. Revision in text in section 1, and 3.1.4. Revision of contact list. (GM)
E	AUG 2003	Change F to P. Remove inactive QU standards. Add comparison tables for VDA list. Indicate that Isuzu will be using IMDS. Update title of VDA list. Update contact list. Revision in tables: Change category names to commonize with VDA list names. Change thresholds for Lead, Mercury, Hexavalent Chromium and Cadmium. Change Lead and Mineral Fibers to P. Change note for Hexavalent Chromium, Cadmium, Mercury, Lead. Change name of Diacetone Alcohol. Add row for noncorrosion protective coatings for CrVI. Add Penta and Octabromodiphenyl Ether as P. Add example to Tin Mercaptans. Add CAS # for Arsenic and Tetrabromobisphenol A. Delete soluble Lead and Thiram. Remove Vinylidene Chloride as duplicate.
F	APR 2004	Delete most declarable only substances from Tables 1 and 2. Add a row to require declaration of all substances on the IMDS International List of Reportable Substances (ILRS). Make mineral fibers to be declarable only. Make decabromodiphenyl ether declarable only for Opel. Delete the GMW3059/VDA comparison tables #3 and #4. Change threshold for Cadmium to 100 ppm for unintentional content to match ILRS. Add ILRS reference tables 3 and 4. (GM)

Data Sheet 1

Data Sheet 1

Declaration of Conformance to GMW3059

O. ☐ 1. This part does not contain substances listed in GMW3059 above the reporting limits.

☐ 2. This part does contain substances listed in GMW3059 above the reporting limits as detailed below

T. Supplier Certification

U. Unit Approval if "P" Substances Present

Approved: ☐ Not approved: ☐

Signature/Seal: _____
 Printed Name: _____
 Date: _____

Signature/Seal: _____
 Printed Name: _____
 Date: _____

Instructions for Data Sheet 1 Data Sheet 1 is to be filled out for all parts. The form should be mailed to each unit that the part is being supplied to. If the part is being supplied to more than one unit, for example NAO Car Group and Opel, the form must be mailed to each unit.

- A** Assembly (Asm)/Part Information: Title block – Enter the information that identifies the part being supplied into sections B through H.
- B** Asm/Part Number: Enter the part identification number assigned by the unit the part is being supplied to.
- C** Asm/Part Name: Enter the name of the part as assigned by the unit the part is being supplied to.
- D** Model Yr/Vehicle Line: Enter the model year of the vehicle the part is being supplied for and the name of the vehicle.
- E** Asm/Part Revision Level and Rev. Date: Enter any information that would identify what the most current level of revision and what date that last revision occurred.
- F** Unit Supplied to: Enter the name of the organization you are supplying the part to. A list of units along with contact information for each is in the appendix.
- G** Asm/Part Mass: Enter the mass of the complete assembly being supplied.
- H** Comments: Enter any other information that would help identify the part.
- I** Manufacturer/Supplier Information: Title block – Supplier enters their information in sections J through N.
- J** Name: Enter contact name at the supplier.
- K** Company: Enter company name that is supplying the part.
- L** Department: Enter the department within the supplier company that the contact belongs to.

- M** Mail Code (if applicable): Enter internal mail code if required within supplier company to get mail to the contact person.
- N** Address: Enter address (including country), telephone number, and fax number for supplier.
- O** Declaration section: Mark the applicable box. If box 1 is marked proceed to section T sign and submit form. If box 2 is marked proceed to section P.
- P** Component in Assembly: If there is more than one component in the assembly/part being supplied enter the part number, name, and mass of the specific component that the reported substance is found in. If there is more than one component that contains the reported substance list all components that apply. If there is more than one reported substance, list all components that contain each substance.
- Q** Material/Surface treatment: Enter the standard number, name, and mass percentage of the material or surface treatment that contains the restricted or reported substance.
- R** Substance: Enter the CAS number, name and mass percentage of the reported substance present in the material/surface treatment listed in Q.
- S** Purpose for Use and Plan to Eliminate Use Including Timing and Substitute Substances: State the reason this substance must be used. Also state what plans are in place to eliminate the use of the substance, by what date the use will be eliminated and what the substitute substance will be.
- T** Supplier Certification: Sign, print name and date to certify all listed information is true and correct.
- U** Unit Approval if "P" Substances Present: If the substance listed is an "P" substance the unit the part is being supplied to must sign the form to approve the use.

Contact List

Unit Contact:			
Unit:	Adam Opel AG	Holden	GM North America
Dept:	ITDC, Central Laboratories	Materials Engineering	Materials Engineering
Post-box/ mail code:	IPC: R2-50	Mail Point 350	483-520-251
Location:	65423 Rüsselsheim Germany	241 Salmon St Port Melbourne 3207 Australia	2000 Centerpoint Parkway Pontiac, MI 48341-3147 USA
Mr./Mrs.:	Dr. Ralf Langendorf	Afia Demiri	Doris Hill
Phone:	49 06142 / 766268	61 3 9647 1473	01 (586) 575-7981
Fax:	49 06142 / 774484	61 3 9647 1286	01 (586) 575-8163
Unit Contact:			
Unit:	Saab	GM do Brasil Ltd	
Dept:	Materials Technology	Materials & Fastening Eng.	
Post-box/ mail code:	TVLEC A16-1	Cx. Postal 197	
Location:	S-461 80 Trollhättan Sweden	Av. Do Estado, 2880 Sao Caetano do Sul - SP- Brasil CEP 09501 - 907	
Mr./Mrs.:	Eva Astin	Antonio Carlos Haddad	
Phone:	46 (0)520 85321	55 11 4234 7871	
Fax:	46 (0)520 78150	55 11 4234 7981 / 55 11 4234 8765	
Unit Contact:			
Unit:	Isuzu	GM Powertrain	
Dept:	Materials Development Section No. 1	Materials	
Post-box/ mail code:	3-25-1	483-710-251	
Location:	Tonomachi Kawasaki-ku Kawasaki-shi 210-8524 Japan	895 Joslyn Road Pontiac, MI 48340-2920 USA	
Mr./Mrs.:		Edward Becker	
Phone:	81-44-276-5510	01 (248)857- 2129	
Fax:	01 (248) 857-2599	01 (248) 857-0053	