



**WORLDWIDE
ENGINEERING
STANDARDS**

**Material
Specification
General**

GMW3059

Restricted and Reportable Substances for Parts

Regelung über die Zulässigkeit von gefährlichen Stoffen

1 Scope

1 Zweck

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

In dieser Vorschrift sind Stoffe spezifiziert, die zum Schutze der Menschen und der Umwelt nicht in Werkstoffen und Bauteilen enthalten sein dürfen oder nur in geringen Mengen vorkommen dürfen.

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

Diese Einschränkungen basieren auf gesetzlichen Verordnungen und/oder selbst auferlegten Vorgaben.

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

Das Ziel dieser Vorschrift ist es den Gebrauch der gelisteten Substanzen zu beschränken bzw. zu verbieten, um die Einhaltung der jetzigen und zukünftigen Vorschriften zu erleichtern.

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

Zusätzliche Informationen über GMW3059, elektronische Versionen der Formulare, FAQs und der Freistellungsprozess sind auf der Webseite www.gmw3059.com zugänglich.

1.1 Material Description. Not applicable.

1.1 Werkstoffbeschreibung. Nicht anwendbar.

1.1.1 Material Identification. Not applicable.

1.1.1 Werkstoffkennzeichnung. Nicht anwendbar.

1.2 Cross-Reference of Replaced Specifications.

1.2 Cross-Referenz auf ersetzte Vorschriften.

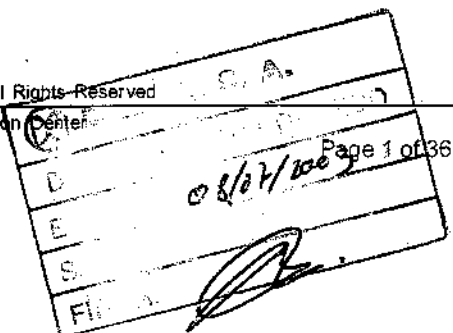
Delta Motors	
GM do Brasil	
GM Holdens	HN 1000, Clause J
GMNA	GM1000M
ISUZU	
ITDC	QU 000000
SAAB	STD 3977

1.2.1 Specifications Qualified to this Material Specification. Not applicable.

1.2.1 Zu dieser Vorschrift qualifizierte Werkstoffvorschriften. Nicht anwendbar.

1.3 Symbol. Not applicable.

1.3 Symbol. Nicht anwendbar.



1.4 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 Normative.

ISO 11014

2.2 GM.

GME 60271
GME 60282

GMW3001
GMW3034

GMW3265
QU 000001

QU 000002
QU 000003

QU 000004
QU 000005

2.3 Additional.

VDA 232-101

3 Requirements

The list contained in this technical specification is based on legal requirements and VDA 232-101 "VDA List for Chemicals Subject to Declaration" (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 an "F" are forbidden 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.

1.4 Typische Anwendungen. Diese Vorschrift gilt gleichermaßen für von uns spezifizierte Werkstoffe und Bauteile, sowie für solche deren Urheberrecht beim Lieferanten liegt (black box).

2 Referenzen

Hinweis: Wenn nicht anders angegeben, ist jeweils die neueste Fassung der angegebenen Referenz gültig.

2.1 Normative.

2.2 GM.

2.3 Zusätzliche.

3 Anforderungen

Die in dieser Vorschrift enthaltene Liste wurde in Anlehnung an gültige Gesetze und die VDA 232-101 "VDA-Liste für deklarationspflichtige Stoffe" erstellt. Alle in Tabelle 1 und Tabelle 2 aufgeführten Substanzen müssen angegeben werden, soweit sie in den Erzeugnissen vorhanden sind oder freigesetzt werden können.

Für die verbotenen und zu deklarierenden Stoffe bzw. Stoffgruppen sind jeweils Mengen- bzw. Gehaltsgrenzen spezifiziert, unterhalb derer eine Deklaration entfällt. Diese Grenzen betragen, soweit nicht anders vermerkt 0.1 %. Dieser Prozentsatz ist für den einzelnen Werkstoff/ Oberflächenbeschichtung, nicht für den Zusammenbau, berechnet.

Alle in der Liste mit "F" gekennzeichneten Stoffe sind oberhalb der in den Tabelle 1 und Tabelle 2 angegebenen Grenzwerte oder wenn kein Grenzwert angegeben ist oberhalb 0.1 % generell oder für bestimmte Anwendungszwecke gesetzlich oder Unternehmensintern verboten und dürfen nicht zugesetzt werden.

Wenn technische Anforderungen einen Einsatz dieser Stoffe zwingend erforderlich machen, muß eine Abweichung von dieser Vorschrift zwischen dem Lieferant und der zuständigen Abteilung des Kunden vereinbart werden.

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 table. 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.

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 redesigned 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 the note columns of Table 1 and Table 2 or by testing metals by atomic absorption, organics by gas chromatography, and fibers by polarized light microscopy if no test method is listed.

3.1.2 Mechanical Requirements. Not applicable.

3.1.3 Physical Requirements. Not applicable.

3.1.4 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.

Alle in der Liste mit "D" gekennzeichneten Stoffe sind bei einer Höhe oberhalb des in Tabelle 1 und Tabelle 2 angegebenen Grenzwertes oder wenn in der Tabellen kein Grenzwert angegeben ist, oberhalb 0.1 % zu deklarieren. Alle Einflüsse durch den Einsatz dieser Substanzen müssen für spezielle Anwendungen bewertet werden, um einen möglichst sicheren und umweltverträglichen Einsatz zu gewährleisten. Diese Stoffe sind, sobald der Stand der Technik, die Verfügbarkeit und die Ökonomie es zulassen, durch alternative Stoffe, die nicht hier enthalten sind, zu ersetzen. Eine regelmäßige Überprüfung der mit "D" gekennzeichneten Substanzen muß durchgeführt werden, deren Zeitintervall vom Kunden vorgegeben wird.

3.1 Anforderungen bei Anlieferung. Unabhängig von dieser Regelung trägt der Lieferant die Verantwortung dafür, daß seine an uns gelieferten Werkstoffe und Bauteile die jeweiligen gültigen Gesetze und Verordnungen der Länder erfüllen müssen, in die geliefert wird.

Die in dieser Vorschrift festgelegten Forderungen entsprechend dem Abschnitt 3.1.1 gelten für alle neuen an uns gelieferten Werkstoffe und Bauteile, wenn auf der Zeichnung nicht anders vorgeschrieben. Diese Forderungen gelten auch für neu-angefragte oder überarbeitete Werkstoffe und Komponenten.

3.1.1 Chemische Anforderungen. Siehe Tabelle 1 und Tabelle 2. Die Tabellen sind in alphabetischer Reihenfolge und nach Gruppen geordnet angegeben (z.B. Metalle, FCKW's, usw.).

Fragen hinsichtlich des Vorhandenseins von diesen Substanzen können beantwortet werden, durch Anwendung der Prüfverfahren, die in der Spalte "Note" der Tabelle 1 und Tabelle 2 genannt sind oder wenn kein Prüfverfahren angegeben ist, durch Atomabsorption für Metalle, durch Gaschromatographie für organische Werkstoffe oder durch Mikroskopie mit polarisiertem Licht für Faserwerkstoffe.

3.1.2 Mechanische Anforderungen. Nicht anwendbar.

3.1.3 Physikalische Anforderungen. Nicht anwendbar.

3.1.4 Zusätzliche Anforderungen. Diese Spezifikation erfordert die Eingabe der Werkstoffe, einschließlich jeder in GMW3059 genannten Substanz und Hauptbestandteile, von Werkstoffen/Komponenten in das International Material Data System (IMDS, Webseite: <http://www.mdssystem.com>) durch den Lieferanten. Die Eingabe in IMDS erfüllt auch die Angabepflicht wie in GMW3059 ausgeführt.

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, GM do Brasil, and Isuzu suppliers must continue to submit Data Sheet 1 (Appendix A). The substances and the materials/components they are used in must be detailed. If the substance is marked with an "F", 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.

Nähere Information bezüglich GM's IMDS Anforderungen sind auf der GM Supply Power Webseite: <http://www.gmsupplypower.com> (Zugang aus jeder "Power-Section" nach /Library/General Information/Environmental Sourcing Information/IMDS/...) verfügbar.

Ausnahmen: Holden, GM do Brasil und Isuzu Lieferanten müssen weiterhin das Datenblatt 1 (Anhang A) ausfüllen. Die Substanzen und die Werkstoffe/Komponenten, in denen die Substanzen eingesetzt werden, müssen angegeben werden. Wenn eine Substanz mit einem "F" gekennzeichnet ist, muß das Datenblatt 1 von der in der Liste der Ansprechpartner im Anhang A genannten Abteilung für das Werk, in das das Teil geliefert wird, unterschrieben werden. Wenn die zuliefernden Werkstoffe/ Komponenten keine von den in der Tabelle 1 und Tabelle 2 genannten Substanzen beinhalten, ist die entsprechende Spalte zu überprüfen und ist das Datenblatt 1 der in der Liste der Ansprechpartner genannten Abteilung als Einhaltungserklärung vorzulegen.

Table 1: Restricted (F) and Reportable (D) Substances — List in Alphabetical Order
 Tabelle 1: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste in alphabetischer Reihenfolge

Substance	Category	CAS No.	Rating	Note	Example — occurrence
Acetaldehyde	Acetaldehyde	75-07-0	D		
Acetamide	Acetamide	60-35-5	D		solvent admixture, softener stabilizer
Acrylamide	Acrylamide	79-06-1	D		residual monomer
Acrylonitrile	Acrylonitrile	107-13-1	D	Will be F in the future.	residual monomer
Actinolite	Fibers/Asbestos	77536-86-4	F	QU 000004	friction lining, gaskets, insulation
o-Aminozotoluene Salts	Azo dye	Group	F		
4-Aminobiphenyl	Aminobiphenyl, 4-	92-67-1	D	Salt regulated with azo dye	found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4-Aminobiphenyl Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2-Amino-4-nitrotoluene Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Amosite	Fibers/Asbestos	12172-73-5	F	QU 000004	friction lining, gaskets, insulation
Aniline	Aniline	62-53-3	D		dye
Aniline Salts	Aniline	Group	D		
Anthophyllite	Fibers/Asbestos	17068-78-9	F	QU 000004	friction lining, gaskets, insulation
Antimony Trioxide	Flame retardants	1309-64-4	D		flame retardant
Antimony	Metals	7440-36-0	D		
Arsenic	Metals		D		
Arsenic compounds	Metals	Group	D		
			D > 400 ppm		metal refinement, metal adhesive, leather and textile refinement, wood preservative, color and melting coating
Auramine	Auramine	492-80-8	D		cotton
Barium	Metals		D		

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Substance	Category	CAS No.	Rating	Note	Example — occurrence
Barium compounds except Barium sulfate	Metals	Group	D		pigments, additives in lubricants
Benzene	Solvent	71-43-2	F > 100 ppm	Fuels exempt	
Benzidine	Azo dye	92-87-5	F > 100 ppm	Salt regulated with azo dye	found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Benzidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Benzo(a)anthracene	Benzo(a)pyrene and other PAH	56-55-3	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Benzo(b)fluoranthene	Benzo(a)pyrene and other PAH	205-99-2	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Benzo(k)fluoranthene	Benzo(a)pyrene and other PAH	205-82-3	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Benzo(k)fluoranthene	Benzo(a)pyrene and other PAH	207-08-9	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Benzo(e)pyrene	Benzo(a)pyrene and other PAH	50-32-8	D > 1 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Beryllium	Metals		D		bituminous coal tar, mineral oil, bitumen, softener oil
Beryllium compounds	Metals	Group	D		electronic parts
Brominated flame retardants	Flame retardants	Group	D		
Bromochlorodifluoromethane (Halon 1211)	CFC	363-59-3	F	The specific name and CAS number of the brominate flame retardant must be declared.	refrigerating or foaming agent, propellant
Bromotrifluoromethane (Halon 1301)	CFC	75-63-8	F	QU 000003	refrigerating or foaming agent, propellant
1,3-Butadiene	Butadiene	106-99-0	D	QU 000003	refrigerating or foaming agent, propellant
Butyl benzyl phthalate (BBP)	Phthalates	85-68-7	D		residual monomer

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Substance	Category	CAS No.	Rating	Note	Example — occurrence
Cadmium	Metals	7440-43-9	F > 75 ppm, D ≤ 75 ppm	QU 000001 Only if intentionally added for D	pigments, polymer stabilizer, surface protection of metals
Cadmium compounds	Metals	Group	F > 75 ppm, D ≤ 75 ppm	QU 000001 Only if intentionally added for D	pigments, polymer stabilizer, surface protection of metals
Carbon Tetrachloride	CFC	56-23-5	F		
CFC 212	CFC	134452-44-1	F		
Chloraniline	Chloraniline	Group	D		
p-Chloraniline Salts	Azo dye	Group	F		hardener or cross linkage agent for polymers and epoxy resin
Chloroxypropane (Epichlorohydrin)	Chloroxypropane (Epichlorohydrin)	106-89-6	D		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Chlorinated Biphenyl (PCB)	Polychlorinated compounds	Including 1336-36-3	F		residual monomer
Chlorocresol (meta-)	Biocides	59-50-7	D		
Chlorocresol (ortho-)	Biocides	1570-64-5	D		
2-Chloro-1,1-Difluoroethane	HCFC	338-65-8	F		
1-Chloro-1,2-Difluoroethane	HCFC	338-64-7	F		
1-Chloro-1,1-Difluoroethane	HCFC	75-68-3	F		
Chlorodifluoromethane (R22)	HCFC	75-45-6	F	QU 000003	refrigerating or foaming agent, propellant
Chlorodifluoropropane	HCFC	134190-53-7	F		
Chlorofluoroethane	HCFC	110587-14-9	F		
Chlorofluoromethane (R31)	HCFC	593-70-4	F	QU 000003	refrigerating or foaming agent, propellant
Chlorofluoropropane	HCFC	134190-54-8	F		
Chlorohexafluoropropane	HCFC	28967-04-4	F		

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Substance	Category	CAS No.	Rating	Note	Example — occurrence
Chloroparaffin, unbranched, (C ₁₀ H ₂₂ -C _n H _{2n} where n = 1 ... 8 to C ₃₀ H ₄₂ -C _n H _{2n} where n = 1 ... 28)	Flame retardant	Group	D		flame retardant, plasticizer
Chloropentafluoroethane (R115)	CFC	76-15-3	F	QU 000003	refrigerating or foaming agent, propellant
Chloropentafluoropropane	HCFC	108662-83-5	F		
2-Chloro-1,1,1,2-Tetrafluoroethane	HCFC	2837-89-0	F		
1-Chloro-1,1,2,2-Tetrafluoroethane	HCFC	354-25-6	F		
Chlorotetrafluoropropane	HCFC	134190-50-4	F		
4-Chloro tetraidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
1-Chloro-1,2,2-Trifluoroethane	HCFC	431-07-2	F		
2-Chloro-1,1,1-Trifluoroethane	HCFC	75-98-7	F		
1-Chloro-1,1,2-Trifluoroethane	HCFC	421-04-5	F		
Chloroform	Chlorinated hydrocarbons	67-66-3	F		
Chlorotrifluoromethane (R13)	CFC	75-72-9	F	QU 000003	refrigerating or foaming agent, propellant
Chlorotrifluoropropane	HCFC	26588-23-8	F		
Chromium	Metals	7440-47-3	D	Alloys exempt	alloying component
Chromium(VI)-Salt — surface coatings	Metals	Group	D > 0.01 µg/cm ²	Test method: GMW3034 Will be F Model Year 2004 for all new vehicle lines. Vehicle lines means all vehicles based on new vehicle architectures starting Model Year 2004. Will be F Model Year 2006 for all applications.	chrome pigments, surfaces chromated

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Substance	Category	CAS No.	Rating	Note	Example — occurrence
Chromium(VI)-Salt — plastics, paints, other	Metals	Group	D > 100 µg/g (ppm)	Determined from knowledge of formulation or by chemical analysis using a valid analytical method Will be F Model Year 2004 for all new vehicle lines. Vehicle lines means all vehicles based on new vehicle architectures starting Model Year 2004. Will be F Model Year 2006 for all applications.	
Chrysotile	Fibers/Asbestos	12001-29-5	F	QU 000004	friction lining, gaskets, insulation
Cobalt	Metals	7440-48-4	D	alloys exempt	alloy metal
Colophony (Rosin)	Colophony	8050-09-7	D		
Copper	Metals	7440-50-8	D	Alloys, electronics, and wiring exempt	
Copper compounds	Metals	Group	D	Alloys, electronics, and wiring exempt	stabilizer
Cresote	Cresoste	8001-58-9	D		
p-Cresidine Salts	Azo dyes	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Crocidolite	Fibers/Asbestos	12001-28-4	F	QU 000004	friction lining, gaskets, insulation
Decabromodiphenyl oxide (DBDPO)	Flame retardant	1163-19-5	D except for Saab and Opel, F for Saab and Opel		Additive in textiles and plastics
Diacetone alcohol	Diacetone alcohol	123-42-2	D except for Opel, Saab & Fiat, F for Opel, Saab & Fiat.		
2,4-Diaminoanisole Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics

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Substance	Category	CAS No.	Rating	Note	Example — occurrence
4,4'-Diaminodiphenyl-methane Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Dibenz(a,h)anthracene	Benzo(a)pyrene and other PAH	53-70-3	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Dibromotetrafluoroethane (Halon 2402)	CFC	124-73-2	F	QU 000003	refrigerating or foaming agent, propellant
Dibutylphthalate (DBP)	Phthalates	84-74-2	D	Will be F in the future.	softener
3,3'-Dichloro benzidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
1,2-Dichloro-1,2-Difluoroethane	HCFC	431-08-1	F		
1,1-Dichloro-2,2-Difluoroethane	HCFC	471-43-2	F		
1,2-Dichloro-1,1-Difluoroethane	HCFC	1649-08-7	F		
1,1 Dichloroethylene	Chlorinated hydrocarbons	75-35-4	F		
Dichlorodifluoromethane (R12)	CFC	75-71-8	F	QU 000003	refrigerating or foaming agent, propellant
Dichlorodifluoropropane	HCFC	134190-52-6	F		
1,2-Dichloro-1-Fluoroethane	HCFC	430-57-9	F		
1,1-Dichloro-2-Fluoroethane	HCFC	430-53-5	F		
1,1-Dichloro-1-Fluoroethane	HCFC	1717-00-6	F		
Dichlorofluoromethane	HCFC	75-43-4	F		
Dichlorofluoropropane	HCFC	127404-11-9	F		
Dichlorohexafluoropropane (R216)	CFC	661-97-2	F		
Dichloropentafluoropropane	HCFC	127564-92-5	F		
Dichlorotetrafluoroethane (R114)	CFC	76-14-2	F	QU 000003	refrigerating or foaming agent, propellant
Dichlorotetrafluoroethane	CFC	1320-37-2	F		
Dichlorotetrafluoropropane	HCFC	127564-83-4	F		

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Substance	Category	CAS No.	Rating	Note	Example — occurrence
1,1-Dichloro-1,2,2,2-Tetrafluoroethane	CFC	374-07-2	F		
2,2-Dichloro-1,1,1-Trifluoroethane	HCFC	306-83-2	F		
Dichlorodifluoropropane	HCFC	116890-51-8	F		
Di-(2-ethylhexyl)phthalate (DEHP)	Phthalates	117-81-7	D		softener
Diethyl phthalate	Phthalates	84-66-2	D		
1,1-Difluoroethane (R1132a)	CFC	75-38-7	F	QU 000003	refrigerating or foaming agent, propellant
Di-isodecyl-phthalate	Phthalates	26761-40-0	D		softener
Di-isononyl-phthalate	Phthalates	1410-61-8 28553-12-0	D		softener
3,3'-Dimethoxy benzidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
3,3'-Dimethylbenzidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
3,3'-Dimethyl-4,4'-diaminodiphenylmethane Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Dimethyl phthalate	Phthalates	131-11-3	D		
Di-n-octyl-phthalate (DOP)	Phthalates	117-84-0	D		
Formaldehyde	Biocides	50-00-0	F > 10 ppm	QU 000002 Test Method: GME 60271 Applies to passenger compartment parts only.	biocide, adhesives, residues and fragments on plastics
Glutaric aldehyde	Glutaric aldehyde	111-30-8	D		
Heptachlorofluoropropane (R211)	CFC		F		3
Hexachlorodifluoropropane (R212)	CFC	76546-99-3	F		
Hexachlorofluoropropane	HCFC	29470-94-8	F		
HCFC-225 ca	HCFC	422-56-1	F		

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Substance	Category	CAS No.	Rating	Note	Example — occurrence
HCFC-225 cb	HCFC	507-85-1	F		
Hydrobromofluorocarbons	CFC	Group	F		
Isothiazolinones	Biocide	Including 2682-20-4 26172-55-4	D		found in adhesives, paints, binders, varnishes
Lead	Metals	7439-92-1	D > 100 ppm	Determined from knowledge of formulation or by chemical analysis using a valid analytical method. Will be F model Year 2004. Except for Opel and Saab: will be F January 1, 2003. Exceptions to F according to Directive 2000/53/EC Annex II.	soldering alloys
Lead compounds, soluble in water	Metals	Group	F > 100 ppm	if uncertain about solubility use test GMW3285	example soluble compounds include lead nitrate and lead acetate. cable covering, corrosion protection, pigments, additive for cathodic elpo process
Lead compounds, insoluble in water	Metals	Group	D > 100 ppm	Determined from knowledge of formulation or by chemical analysis using a valid analytical method. Will be F model Year 2004. Except for Opel and Saab: will be F January 1, 2003. Exceptions to F according to Directive 2000/53/EC Annex II.	cable covering, corrosion protection, pigments, additive for cathodic elpo process
Mercury	Metals	7439-97-6	F > 10 ppm	Decision regarding exemption for lighting to be made by each GM Unit	
Mercury compounds	Metals	Group	F > 10 ppm		pigments
Mesityl Oxide	Mesityl Oxide	141-79-7	D except for Opel, Saab & Fiat. F for Opel, Saab & Fiat.		
Methyl Bromide	CFC	74-83-9	F		

Table 1: Restricted (F) and Reportable (D) Substances — List in Alphabetical Order
 Tabelle 1: Verbotene (F) und deklarationspflichtige (D) Substanzen — Liste in alphabetischer Reihenfolge

Substance	Category	CAS No.	Rating	Note	Example — occurrence
Methylene Chloride	Chlorinated hydrocarbons	75-09-2	F		
4,4'-Methylene-bis(2-chloroaniline) Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Mineral fibers diameter < 3 µm, length > 5 µm, lq > 3:1 and other respirable	Fibers/Asbestos	Group	D		friction lining, shielding, reinforcement, insulation, cable
Monochloroheptafluoropropane (R217)	CFC		F		
Monomethylbromodiphenylmethane	Flame retardants	99688-47-8	F		residues and fragments during the manufacture of polymers
Monomethyl-dichloro- diphenyl methane	Flame retardants	76253-60-6	F		residues and fragments during the manufacture of polymers
Monomethyltetrachlorodiphenyl-methane	Flame retardants		F		residues and fragments during the manufacture of polymers
Naphthalene	Naphthalene	91-20-3	D		textile additive
2-Naphthylamine	Naphthylamine	91-59-8	F	Salt regulated with azo dye	found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2-Naphthylamine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Nickel	Metals	7440-02-0	D		
Nickel compounds	Metals	Group	D		Alloys exempt
N-Nitrosodi-n-butylamine	Nitrosamine	924-16-3	D	Will be F in the future.	nickel pigment, galvanic additive, bonderize additive
N-Nitrosodietanolamine	Nitrosamine	1116-54-7	D	Will be F in the future.	rubber article
N-Nitrosodietylamine	Nitrosamine	55-18-5	D	Will be F in the future.	rubber article
N-Nitrosodimethylamine	Nitrosamine	62-75-9	D	Will be F in the future.	rubber article
N-Nitrosodi-n-propylamine	Nitrosamine	601-77-4	D	Will be F in the future.	rubber article
N-Nitrosodi-n-propylamine	Nitrosamine	621-64-7	D	Will be F in the future.	rubber article
N-Nitrosoethylphenylamine	Nitrosamine	612-64-6	D	Will be F in the future.	rubber article

Table 1: Restricted (F) and Reportable (D) Substances — List in Alphabetical Order
 Tabelle 1: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste in alphabetischer Reihenfolge

Substance	Category	CAS No.	Rating	Note	Example — occurrence
N-Nitrosomethylphenylamine	Nitrosamine	614-00-6	D	Will be F in the future.	rubber article
N-Nitrosomethylallylamine	Nitrosamine	10595-95-6	D	Will be F in the future.	rubber article
N-Nitrosomorpholin	Nitrosamine	59-89-2	D	Will be F in the future.	rubber article
N-Nitrosopiperidine	Nitrosamine	100-75-4	D	Will be F in the future.	rubber article
N-Nitrosopyrrolidine	Nitrosamine	930-55-2	D	Will be F in the future.	rubber article
Nonylphenol (4-) NFO	Phenol	104-40-5 25154-52-3	D		
Nonylphenolethoxylates NFE	Phenol	9016-45-9	D		
4,4'-Oxydianiline Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Pentachlorodifluoropropane	HCFC	116867-32-4	F		
Pentachloroethane	Chlorinated hydrocarbons	76-01-7	F		
Pentachlorofluoroethane (R111)	CFC	354-56-3	F		
Pentachlorofluoropropane	HCFC	134190-48-0	F		
Pentachlorophenol (PCP)	Phenol	87-86-5	F		wood preservative
Pentachlorophenol compounds	Phenol	Group	F		wood preservative
Pentachlorotrifluoropropane (R213)	CFC		F		
Perchloroethylene	Chlorinated hydrocarbons	127-18-4	F		
Phenol	Phenol	108-95-2	D	QU 000005 Test Method: GME 60282.	residual monomer in phenolic resins, fragments on polymer materials, wood materials and textiles
Phenols as a group	Phenol	Group	D		
N-Phenyl-2-naphthylamine	Phenyl-2-naphthylamine	135-88-6	D		antioxidant
Polybrominated Biphenyl (PBB)	Flame retardants	59536-65-1	F		
Polybrominated Diphenylether (PBDE)	Flame retardants		F		additive in plastics and textiles
Polybrominated Terphenyl	Flame retardants		F		additive in plastics and textiles

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 Tabelle 1: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste in alphabetischer Reihenfolge

Substance	Category	CAS No.	Rating	Note	Example — occurrence
Polychlorinated Terphenyl (PCT)	Polychlorinated compounds		F		softener, impregnating agent, insulation liquid
PVC	Polyvinylchloride	9002-86-2	D		
Radioactive compounds	Radioactive Compounds		D > background		
Sodium azide	Sodium azide	26628-22-8	D		gas generator airbag
Sodium nitrite	Sodium nitrite	7623-00-0	D		
Styrene	Styrene	100-42-5	D		residual monomer, solvent
Styrene oxide	Styrene	96-09-3	D		residual monomer, softener
Tetrabromobisphenol-A (TBBPA)	Flame retardants	79-94-7	D		textiles
Tetrachlorodifluoroethane (R112)	CFC	76-12-0	F	QU 000003	refrigerating or foaming agent, propellant
1,1,1,2-Tetrachloro-2,2-Difluoroethane	CFC	76-11-9	F		
Tetrachlorodifluoropropane	HCFC	127564-82-3	F		
1,1,2,2 Tetrachloroethane	Chlorinated hydrocarbons	79-34-5	F		
1,1,1,2 Tetrachloroethane	Chlorinated hydrocarbons	630-20-6	F		
1,1,2,2-Tetrachloro-1-Fluoroethane	HCFC	354-14-3	F		
1,1,1,2-Tetrachloro-2-Fluoroethane	HCFC	354-11-0	F		
Tetrachlorofluoropropane	HCFC	134190-49-1	F		
Tetrachlorotetrafluoropropane (R214)	CFC	2268-46-4	F		
Tetrachlorotrifluoropropane	HCFC	29470-95-9	F		
4,4-Thiadianiline Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Thallium	Metals	7440-28-0	D		electronic parts, sensor, alloying components
Thallium compounds	Metals	Group	D		
Thiram (TMTD)	Flame retardants	137-26-8	D		

Table 1: Restricted (F) and Reportable (D) Substances — List in Alphabetical Order
 Tabelle 1: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste in alphabetischer Reihenfolge

Substance	Category	CAS No.	Rating	Note	Example --- occurrence
Tin mercaptans	Metals	Group	D except for Opel, Saab & Fiat, F for Opel, Saab & Fiat.		
Tin organic compounds	Metals	Group	D		catalyst for PUR foams, stabilizer
m-Toluidine	Azo dye	108-44-1	D		dye, textile auxiliary, curing agent
o-Toluidine	Azo dye	95-53-4	D		dye, textile auxiliary, curing agent
p-Toluidine	Azo dye	108-49-0	D		dye, textile auxiliary, curing agent
o-Toluidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2,4-Toluyldiamine salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Tremolite	Fibers/Asbestos	14567-73-6	F	QU 000004	friction lining, gaskets, insulation
1,2,2-Trichloro-1,1-Difluoroethane	HCFC	354-21-2	F		
1,2,2-Trichloro-1,2-Difluoroethane	HCFC	354-15-4	F		
Trichloroethylene	Chlorinated hydrocarbons	79-01-6	F		
Trichlorodifluoropropane	HCFC	127564-90-3	F		
Tri(2-chloroethyl)phosphate	Flame retardants	115-96-8	D		
1,1,1-Trichloroethane	CFC	71-55-6	F		
1,1,2- or 1,2,2-Trichloroethane	CFC	79-00-5	F		
1,1,2-Trichloro-2-Fluoroethane	HCFC	359-28-4	F		
1,1,2-Trichloro-1-Fluoroethane	HCFC	811-95-0	F		
1,1,1-Trichloro-2-Fluoroethane	HCFC	2366-36-1	F		
Trichlorofluoromethane (R11)	CFC	75-69-4	F	QU 000003	refrigerating or foaming agent, propellant
Trichlorofluoropropane	HCFC	134190-51-5	F		
Trichloropentafluoropropane (R215)	CFC	4259-43-2	F		
Trichlorotetrafluoropropane	HCFC	127564-91-4	F		

Table 1: Restricted (F) and Reportable (D) Substances — List in Alphabetical Order
 Tabelle 1: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste in alphabetischer Reihenfolge

Substance	Category	CAS No.	Rating	Note	Example — occurrence
Trichlorotrifluoroethane (R113)	CFC	76-13-1	F	QU 000003	refrigerating or foaming agent, propellant
1,1,1-Trichloro-2,2,2-Trifluoroethane	CFC	28523-64-8	F		
Trichlorotrifluoropropane	HCFC	134237-40-4	F		
1,1,1-Trifluoro-trichloroethane	CFC	354-58-5	F		
2,4,5-Trimethylaniiline Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Trimethylphosphate	Flame retardants	512-56-1	D		flame retardant
Triphenylphosphate	Flame retardants	115-86-6	D		
Vinylidene chloride	Vinylchloride	75-35-4	F		
Vinylchloride monomer	Vinylchloride	75-01-4	F		residual monomer

Table 2: Restricted (F) and Reportable (D) Substances — List by Category
 Tabelle 2: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste nach Kategorie geordnet

Substance	Category	CAS No.	Rating	Note	Example — occurrence
Acetaldehyde	Acetaldehyde	75-07-0	D		
Acetamide	Acetamide	60-35-5	D		solvent admixture, softerer stabilizer
Acrylamide	Acrylamide	79-06-1	D		residual monomer
Acrylonitrile	Acrylonitrile	107-13-1	D	Will be F in the future.	residual monomer
4-Aminobiphenyl	Aminobiphenyl, 4-	92-67-1	D	Salt regulated with azo dye	found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Aniline	Aniline	62-53-3	D		dye
Aniline Salts	Aniline	Group	D		
Auramine	Auramine	492-80-8	D		cotton
o-Aminoazotoluene Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4-Aminobiphenyl Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2-Amino-4-nitrotoluene Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Benzidine	Azo dye	92-87-5	F > 100 ppm	Salt regulated with azo dye	found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Benzidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
p-Chloraniline Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4-Chloro toluidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics

Table 2: Restricted (F) and Reportable (D) Substances — List by Category
 Tabelle 2: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste nach Kategorie geordnet

Substance	Category	CAS No.	Rating	Note	Example — occurrence
p-Cresidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2,4-Diaminoanisole Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4,4'-Diaminodiphenyl-methane Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
3,3'-Dichloro benzidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
3,3'-Dimethoxy benzidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
3,3'-Dimethylbenzidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
3,3'-Dimethyl-4,4'-diaminodiphenyl-methane Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4,4'-Methylene-to (2-chloraniline) Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2-Naphthylamine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4,4'-Oxydianiline Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4,4'-Thiadianiline Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
m-Toluidine	Azo dye	108-44-1	D		dye, textile auxiliary, curing agent
o-Toluidine	Azo dye	95-53-4	D		dye, textile auxiliary, curing agent

Table 2: Restricted (F) and Reportable (D) Substances — List by Category
 Tabelle 2: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste nach Kategorie geordnet

Substance	Category	CAS No.	Rating	Note	Example — occurrence
p-Toluidine	Azo dye	106-49-0	D		dye, textile auxiliary, curing agent
o-Toluidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2,4-Tolylendiamine salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2,4,5-Trimethylaniline Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Benzo(a)anthracene	Benzo(a)pyrene and other PAH	56-55-3	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Benzo(b)fluoranthene	Benzo(a)pyrene and other PAH	205-99-2	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Benzo(j)fluoranthene	Benzo(a)pyrene and other PAH	205-82-3	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Benzo(k)fluoranthene	Benzo(a)pyrene and other PAH	207-08-9	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Benzo(a)pyrene	Benzo(a)pyrene and other PAH	50-32-8	D > 1 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Dibenz(a,h)anthracene	Benzo(a)pyrene and other PAH	53-70-3	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
isothiazolones	Biocide	Including 2682-20-4 26172-55-4	D		found in adhesives, paints, binders, varnishes
Chlorocresol (meta-)	Biocides	59-50-7	D		
Chlorocresol (ortho-)	Biocides	1570-64-5	D		
Formaldehyde	Biocides	50-00-0	F > 10 ppm	QU 000002 Test Method: GME 60271 Applies to passenger compartment parts only.	biocide, adhesives, residues and fragments on plastics
1,3-Butadiene	Butadiene	106-99-0	D		residual monomer
Bromochlorodifluoromethane (Halon 1211)	GFC	353-59-3	F	QU 000003	refrigerating or foaming agent, propellant

Table 2: Restricted (F) and Reportable (D) Substances — List by Category
 Tabelle 2: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste nach Kategorie geordnet

Substance	Category	CAS No.	Rating	Note	Example — occurrence
Bromotrifluoromethane (Halon 1301)	CFC	75-63-8	F	QU 000003	refrigerating or foaming agent, propellant
Carbon Tetrachloride	CFC	56-23-5	F		
CFC 212	CFC	134452-44-1	F		
Chloropentafluoroethane (R115)	CFC	76-15-3	F	QU 000003	refrigerating or foaming agent, propellant
Chlorotrifluoromethane (R13)	CFC	75-72-9	F	QU 000003	refrigerating or foaming agent, propellant
Dibromotetrafluoroethane (Halon 2402)	CFC	124-73-2	F	QU 000003	refrigerating or foaming agent, propellant
Dichlorodifluoromethane (R12)	CFC	75-71-8	F	QU 000003	refrigerating or foaming agent, propellant
Dichlorohexafluoropropane (R216)	CFC	661-97-2	F		
Dichlorotetrafluoroethane (R114)	CFC	76-14-2	F	QU 000003	refrigerating or foaming agent, propellant
Dichlorotetrafluoroethane	CFC	1320-37-2	F		
1,1-Dichloro-1,2,2,2-Tetrafluoroethane	CFC	374-07-2	F		
1,1-Difluoroethane (R1132a)	CFC	75-38-7	F	QU 000003	refrigerating or foaming agent, propellant
Heptachlorofluoropropane (R211)	CFC		F		
Hexachlorodifluoropropane (R212)	CFC	78546-99-3	F		
Hydrobromofluorocarbons	CFC	Group	F		
Methyl Bromide	CFC	74-83-9	F		
Monochloroheptafluoropropane (R217)	CFC		F		
Pentachlorofluoroethane (R111)	CFC	354-56-3	F		
Pentachlorotrifluoropropane (R213)	CFC		F		
Tetrachlorodifluoroethane (R112)	CFC	76-12-0	F	QU 000003	refrigerating or foaming agent, propellant

Table 2: Restricted (F) and Reportable (D) Substances --- List by Category
 Tabelle 2: Verbotene "F" und deklarationspflichtige "D" Substanzen --- Liste nach Kategorie geordnet

Substance	Category	CAS No.	Rating	Note	Example --- occurrence
1,1,1,2-Tetrachloro-2,2-Difluoroethane	CFC	76-11-9	F		
Tetrachlorotetrafluoropropane (R214)	CFC	2268-46-4	F		
1,1,1-Trichloroethane	CFC	71-55-6	F		
1,1,2- or 1,2,2-Trichloroethane	CFC	79-00-5	F		
Trichlorofluoromethane (R11)	CFC	75-69-4	F	QU 000003	refrigerating or foaming agent, propellant
Trichloropentafluoropropane (R215)	CFC	4259-43-2	F		
Trichlorotrifluoroethane (R113)	CFC	76-13-1	F	QU 000003	refrigerating or foaming agent, propellant
1,1,1-Trichloro-2,2-Trifluoroethane	CFC	26523-64-8	F		
1,1,1-Trifluoro-trichloroethane	CFC	354-58-5	F		
Chloraniline	Chloraniline	Group	D		hardener or cross linkage agent for polymers and epoxy resin
Chloroxypropane (Epichlorohydm)	Chloroxypropane (Epichlorohydm)	106-89-8	D		residual monomer
Chloroform	Chlorinated hydrocarbons	67-66-3	F		
Methylene Chloride	Chlorinated hydrocarbons	75-09-2	F		
Pentachloroethane	Chlorinated hydrocarbons	76-01-7	F		
Perchloroethylene	Chlorinated hydrocarbons	127-18-4	F		
1,1,2,2 Tetrachloroethane	Chlorinated hydrocarbons	79-34-5	F		
1,1,1,2 Tetrachloroethane	Chlorinated hydrocarbons	630-20-6	F		
1,1 Dichloroethylene	Chlorinated hydrocarbons	75-35-4	F		
Trichloroethylene	Chlorinated hydrocarbons	79-01-5	F		

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Table 2: Restricted (F) and Reportable (D) Substances — List by Category
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Substance	Category	CAS No.	Rating	Note	Example — occurrence
Colophony (Rosin)	Colophony	8050-09-7	D		
Creosote	Creosote	8001-58-9	D		
Diacetone alcohol	Diacetone alcohol	123-42-2	D except for Opel, Saab & Fiat. F for Opel, Saab & Fiat.		
Actinolite	Fibers/Asbestos	77536-66-4	F	QU 000004	friction lining, gaskets, insulation
Amosite	Fibers/Asbestos	12172-73-5	F	QU 000004	friction lining, gaskets, insulation
Anthophyllite	Fibers/Asbestos	17068-78-9	F	QU 000004	friction lining, gaskets, insulation
Chrysotile	Fibers/Asbestos	12001-29-5	F	QU 000004	friction lining, gaskets, insulation
Crocidolite	Fibers/Asbestos	12001-28-4	F	QU 000004	friction lining, gaskets, insulation
Mineral fibers diameter < 3 µm, length > 5 µm, l:d > 3:1 and other respirable	Fibers/Asbestos	Group	D		friction lining, shielding, reinforcement, insulation, cable
Tremolite	Fibers/Asbestos	14567-73-8	F	QU 000004	friction lining, gaskets, insulation
Polybrominated Terphenyl	Flame retardants		F		additive in plastics and textiles
Tetrabromobisphenol-A (TBBPA)	Flame retardants	79-94-7	D		textiles
Chloroparaffin, unbranched, (C ₁₀ H _{22-n} Cl _n where n = 1 ... 8 to C ₃₀ H _{62-n} Cl _n where n = 1 ... 28)	Flame retardant	Group	D		flame retardant, plasticizer
Decabromodiphenyl oxide (DBDPO)	Flame retardant	1163-19-5	D except for Saab and Opel. F for Saab and Opel		Additive in textiles and plastics
Antimony Trioxide	Flame retardants	1309-64-4	D		flame retardant
Brominated flame retardants	Flame retardants	Group	D	The specific name and CAS number of the brominate flame retardant must be declared.	
Monomethyldibromodiphenylmethane	Flame retardants	99688-47-8	F		residues and fragments during the manufacture of polymers
Monomethyl-dichloro-diphenyl methane	Flame retardants	76253-60-6	F		residues and fragments during the manufacture of polymers

Table 2: Restricted (F) and Reportable (D) Substances — List by Category
 Tabelle 2: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste nach Kategorie geordnet

Substance	Category	CAS No.	Rating	Note	Example — occurrence
Monomethyltetrachlorodiphenylmethane	Flame retardants		F		residues and fragments during the manufacture of polymers
Polybrominated Biphenyl (PBB)	Flame retardants	59636-65-1	F		
Polybrominated Diphenylether (PBDE)	Flame retardants		F		additive in plastics and textiles
Thiram (TMTD)	Flame retardants	137-26-8	D		
Tri(2-chloroethyl)phosphate	Flame retardants	115-86-8	D		
Trimethylphosphate	Flame retardants	512-56-1	D		flame retardant
Triphenylphosphate	Flame retardants	115-86-6	D		
Glutaric aldehyde	Glutaric aldehyde	111-30-8	D		
2-Chloro-1,1-Difluoroethane	HCFC	338-65-8	F		
1-Chloro-1,2-Difluoroethane	HCFC	338-64-7	F		
1-Chloro-1,1-Difluoroethane	HCFC	75-68-3	F		
Chlorodifluoromethane (R22)	HCFC	75-45-6	F	QU 000003	refrigerating or foaming agent, propellant
Chlorodifluoropropane	HCFC	134190-53-7	F		
Chlorofluoroethane	HCFC	110587-14-9	F		
Chlorofluoromethane (R31)	HCFC	593-70-4	F	QU 000003	refrigerating or foaming agent, propellant
Chlorofluoropropane	HCFC	134190-54-8	F		
Chlorohexafluoropropane	HCFC	28987-04-4	F		
Chloropentafluoropropane	HCFC	108662-83-5	F		
2-Chloro-1,1,2-Tetrafluoroethane	HCFC	2837-89-0	F		
1-Chloro-1,1,2,2-Tetrafluoroethane	HCFC	354-25-6	F		
Chlorotetrafluoropropane	HCFC	134190-50-4	F		
1-Chloro-1,2,2-Trifluoroethane	HCFC	431-07-2	F		
2-Chloro-1,1,1-Trifluoroethane	HCFC	75-88-7	F		
1-Chloro-1,1,2-Trifluoroethane	HCFC	421-04-5	F		

Table 2: Restricted (F) and Reportable (D) Substances --- List by Category
 Tabelle 2: Verbotene "F" und deklarationspflichtige "D" Substanzen --- Liste nach Kategorie geordnet

Substance	Category	CAS No.	Rating	Note	Example --- occurrence
Chlorotrifluoropropane	HCFC	26588-23-8	F		
1,2-Dichloro-1,2-Difluoroethane	HCFC	431-06-1	F		
1,1-Dichloro-2,2-Difluoroethane	HCFC	471-43-2	F		
1,2-Dichloro-1,1-Difluoroethane	HCFC	1649-08-7	F		
Dichlorodifluoropropane	HCFC	134190-52-6	F		
1,2-Dichloro-1-Fluoroethane	HCFC	430-57-9	F		
1,1-Dichloro-2-Fluoroethane	HCFC	430-53-5	F		
1,1-Dichloro-1-Fluoroethane	HCFC	1717-00-6	F		
Dichlorofluoromethane	HCFC	75-43-4	F		
Dichlorofluoropropane	HCFC	127404-11-9	F		
Dichloropentafluoropropane	HCFC	127584-82-5	F		
Dichlorotetrafluoropropane	HCFC	127564-83-4	F		
2,2-Dichloro-1,1-Trifluoroethane	HCFC	306-83-2	F		
Dichlorotrifluoropropane	HCFC	116890-51-8	F		
Hexachlorofluoropropane	HCFC	29470-94-8	F		
HCFC-225 ca	HCFC	422-56-1	F		
HCFC-225 ob	HCFC	507-55-1	F		
Pentachlorodifluoropropane	HCFC	116867-32-4	F		
Pentachlorofluoropropane	HCFC	134190-48-0	F		
Tetrachlorodifluoropropane	HCFC	127564-82-3	F		
1,1,2,2-Tetrachloro-1-Fluoroethane	HCFC	354-14-3	F		
1,1,1,2-Tetrachloro-2-Fluoroethane	HCFC	354-11-0	F		
Tetrachlorofluoropropane	HCFC	134190-49-1	F		
Tetrachlorotrifluoropropane	HCFC	29470-95-9	F		
1,2,2-Trichloro-1,1-Difluoroethane	HCFC	354-21-2	F		
1,2,2-Trichloro-1,2-Difluoroethane	HCFC	354-15-4	F		

Table 2: Restricted (F) and Reportable (D) Substances — List by Category
 Tabelle 2: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste nach Kategorie geordnet

Substance	Category	CAS No.	Rating	Note	Example — occurrence
Trichlorodifluoropropane	HCFC	127564-90-3	F		
1,1,2-Trichloro-2-Fluoroethane	HCFC	359-28-4	F		
1,1,2-Trichloro-1-Fluoroethane	HCFC	811-95-0	F		
1,1,1-Trichloro-2-Fluoroethane	HCFC	2366-36-1	F		
Trichlorofluoropropane	HCFC	134190-51-5	F		
Trichlorotetrafluoropropane	HCFC	127564-91-4	F		
Trichlorotrifluoropropane	HCFC	134237-40-4	F		
Mesityl Oxide	Mesityl Oxide	141-79-7	D except for Opel, Saab & Fiat. F for Opel, Saab & Fiat.		
Antimony	Metals	7440-36-0	D		
Arsenic	Metals		D		
Arsenic compounds	Metals	Group	D > 400 ppm		metal refinement, metal adhesive, leather and textile refinement, wood preservative, color and melting coating
Barium	Metals		D		
Barium compounds except Barium sulfate	Metals	Group	D		pigments, additives in lubricants
Beryllium	Metals		D		
Beryllium compounds	Metals	Group	D		electronic parts
Cadmium	Metals	7440-43-9	F > 75 ppm, D ≤ 75 ppm	QU 000001 Only if intentionally added for D	pigments, polymer stabilizer, surface protection of metals
Cadmium compounds	Metals	Group	F > 75 ppm, D ≤ 75 ppm	QU 000001 Only if intentionally added for D	pigments, polymer stabilizer, surface protection of metals
Chromium	Metals	7440-47-3	D	Alloys exempt	alloying component

Table 2: Restricted (F) and Reportable (D) Substances — List by Category
 Tabelle 2: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste nach Kategorie geordnet

Substance	Category	CAS No.	Rating	Note	Example — occurrence
Chromium(VI)-Salt — plastics, paints, other	Metals	Group	D > 100 µg/g (ppm)	Determined from knowledge of formulation or by chemical analysis using a valid analytical method Will be F Model Year 2004 for all new vehicle lines. Vehicle lines means all vehicles based on new vehicle architectures starting Model Year 2004. Will be F Model Year 2006 for all applications.	
Chromium(VI)-Salt — surface coatings	Metals	Group	D > 0.01 µg/cm ²	Test method: GMW3034 Will be F Model Year 2004 for all new vehicle lines. Vehicle lines means all vehicles based on new vehicle architectures starting Model Year 2004. Will be F Model Year 2006 for all applications.	chrome pigments, surfaces chromated
Cobalt	Metals	7440-48-4	D	alloys exempt	alloy metal
Copper	Metals	7440-50-8	D	Alloys, electronics, and wiring exempt	
Copper compounds	Metals	Group	D	Alloys, electronics, and wiring exempt	stabilizer
Lead	Metals	7439-92-1	D > 100 ppm	Determined from knowledge of formulation or by chemical analysis using a valid analytical method. Will be F model Year 2004. Except for Opel and Saab: will be F January 1, 2003. Exceptions to F according to Directive 2000/53/EC Annex II.	soldering alloys
Lead compounds, soluble in water	Metals	Group	F > 100 ppm	If uncertain about solubility use test GMW3265	example soluble compounds include lead nitrate and lead acetate. cable covering, corrosion protection, pigments, additive for cathodic elpo process

Table 2: Restricted (F) and Reportable (D) Substances — List by Category
 Tabelle 2: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste nach Kategorie geordnet

Substance	Category	CAS No.	Rating	Note	Example -- occurrence
Lead compounds, insoluble in water	Metals	Group	D > 100 ppm	Determined from knowledge of formulation or by chemical analysis using a valid analytical method. Will be F model Year 2004. Except for Opel and Saab: will be F January 1, 2003. Exceptions to F according to Directive 2000/53/EC Annex II.	cable covering, corrosion protection, pigments, additive for cathodic elpo process
Mercury	Metals	7439-97-6	F > 10 ppm	Decision regarding exemption for lighting to be made by each GM Unit	
Mercury compounds	Metals	Group	F > 10 ppm		pigments
Nickel	Metals	7440-02-0	D	Alloys exempt	
Nickel compounds	Metals	Group	D		nickel pigment, galvanic additive, bonderize additive
Thallium	Metals	7440-28-0	D		electronic parts, sensor, alloying components
Thallium compounds	Metals	Group	D		
Tin mercaptans	Metals	Group	D		
Tin organic compounds	Metals	Group	D except for Opel, Saab & Fiat. F for Opel, Saab & Fiat.		
Naphthalene	Naphthalene	91-20-3	D		catalyst for PUR foams, stabilizer
2-Naphthylamine	Naphthylamine	91-69-8	F	Salt regulated with azo dye	textile additive
N-Nitrosodi-n-butylamine	Nitrosamine	924-15-3	D	Will be F in the future.	found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
N-Nitrosodietanolamine	Nitrosamine	1116-54-7	D	Will be F in the future.	rubber article
N-Nitrosodimethylamine	Nitrosamine	55-18-5	D	Will be F in the future.	rubber article
N-Nitrosodimethylamine	Nitrosamine	62-75-9	D	Will be F in the future.	rubber article
N-Nitrosodi-l-propylamine	Nitrosamine	601-77-4	D	Will be F in the future.	rubber article

Table 2: Restricted (F) and Reportable (D) Substances — List by Category
 Tabelle 2: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste nach Kategorie geordnet

Substance	Category	CAS No.	Rating	Note	Example — occurrence
N-Nitrosodi-n-propylamine	Nitrosamine	621-64-7	D	Will be F in the future.	rubber article
N-Nitrosoethylphenylamine	Nitrosamine	612-64-6	D	Will be F in the future.	rubber article
N-Nitrosomethylphenylamine	Nitrosamine	614-00-6	D	Will be F in the future.	rubber article
N-Nitrosomethylfethylamine	Nitrosamine	10595-95-6	D	Will be F in the future.	rubber article
N-Nitrosomorpholin	Nitrosamine	59-89-2	D	Will be F in the future.	rubber article
N-Nitrosopiperidine	Nitrosamine	100-75-4	D	Will be F in the future.	rubber article
N-Nitrosopyrrolidine	Nitrosamine	930-55-2	D	Will be F in the future.	rubber article
Nonylphenol (4-) NFO	Phenol	104-40-5 25154-52-3	D		
Nonylphenolethoxylates NFE	Phenol	9016-45-9	D		
Pentachlorophenol (PCP)	Phenol	87-86-5	F		wood preservative
Pentachlorophenol compounds	Phenol	Group	F		wood preservative
Phenol	Phenol	108-96-2	D	QU 000005 Test Method: GME 60282.	residual monomer in phenolic resins, fragments on polymer materials, wood materials and textiles
Phenols as a group	Phenol	Group	D		
N-Phenyl-2-naphthylamine	Phenyl-2-naphthylamine	135-88-6	D		antioxidant
Butyl benzyl phthalate (BBP)	Phthalates	85-68-7	D		
Dibutylphthalate (DBP)	Phthalates	84-74-2	D	Will be F in the future.	softener
Di-(2-ethylhexyl)phthalate (DEHP)	Phthalates	117-81-7	D		softener
Diethyl phthalate	Phthalates	84-66-2	D		
Di-isodecyl-phthalate	Phthalates	26761-40-0	D		softener
Di-isononyl-phthalate	Phthalates	1410-61-8 28553-12-0	D		softener
Dimethyl phthalate	Phthalates	131-11-3	D		
Di-n-octyl-phthalate (DOP)	Phthalates	117-84-0	D		
Chlorinated Biphenyl (PCB)	Polychlorinated compounds	*including 1336-36-3	F		softener, impregnating agent, insulation liquid

Table 2: Restricted (F) and Reportable (D) Substances — List by Category
 Tabelle 2: Verbotene "F" und deklarationspflichtige "D" Substanzen — Liste nach Kategorie geordnet

Substance	Category	CAS No.	Rating	Note	Example — occurrence
Polychlorinated Terphenyl (PCT)	Polychlorinated compounds		F		softener, impregnating agent, insulation liquid
PVC	Polyvinylchloride	9002-86-2	D		
Radioactive compounds	Radioactive Compounds		D > background		
Sodium azide	Sodium azide	26628-22-8	D		
Sodium nitrite	Sodium nitrite	7623-00-0	D		gas generator airbag
Benzene	Solvent	71-43-2	F > 100 ppm	Fuels exempt	
Styrene	Styrene	100-42-5	D		residual monomer, solvent
Styrene oxide	Styrene	96-09-3	D		residual monomer, softener
Vinylidene chloride	Vinylchloride	75-35-4	F		
Vinylchloride monomer	Vinylchloride	75-01-4	F		residual monomer

3.2 Processing Requirements. Subparagraphs were not applicable.

3.2 Prozessanforderungen. Unterabschnitte waren nicht anwendbar.

3.3 Performance Requirements. Subparagraphs were not applicable.

3.3 Gebrauchsanforderungen. Unterabschnitte waren nicht anwendbar.

3.4 Requirements on other Stages during Life Cycle. Subparagraphs were not applicable.

3.4 Anforderungen an andere Zustände während des Lebenszyklus. Unterabschnitte waren nicht anwendbar.

4 Manufacturing Process

4 Herstellungsprozess

Not applicable.

Nicht anwendbar.

5 Rules and Regulations

5 Gesetze und Vorschriften

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

5.1 Alle nach dieser Vorschrift gelieferten Werkstoffe müssen die Anforderungen von GMW3001, Gesetze und Vorschriften für Werkstoffvorschriften, erfüllen.

6 Approved Sources

6 Zugelassene Lieferanten

Not applicable.

Nicht anwendbar.

7 Coding System

7 Angabe in Dokumenten

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

Diese Werkstoffvorschrift ist in anderen Dokumenten, Zeichnungen, VTS, CTS etc. wie folgt anzugeben:

Restricted and Reportable Substances for Parts per GMW3059

Regelung über die Zulässigkeit von gefährlichen Stoffen nach GMW3059

8 Release and Revisions

8 Freigabe und Änderungen

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

8.1 Freigabe. Diese Werkstoffvorschrift wurde im Mai 1998 erstellt, genehmigt und im März 1999 freigegeben.

8.2 Revisions.

8.2 Änderungen.

Rev.	Date / Datum	Description (Org.) / Beschreibung (Org.)
A	JUL 1999	Revised contact list (GM) / Kontaktliste überarbeitet (GM)
B	JUN 2000	Update table;; document reformatted (GM) / Tabellen aktualisiert: Dokument neu strukturiert (GM)
C	DEC 2000	Revision in tables (GM) / Tabellen aktualisiert: PVC - Hinweis entfällt; Blei & Wasserunlösliche Bleibestandteile - Hinweis hinzugefügt. (GM)
D	AUG 2002	Revision in tables to add Acetaldehyde, Benzene, Chloroform, Diacetone alcohol, 1,1, Dichloroethylene, HCFC 225ca, 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, and to change threshold on Lead, and Formaldehyde and to change date on Hexavalent Chromium. Revision in text in section 1, and 3.1.4. Revision of contact list. (GM) / Überarbeitung der Tabelle: Zufügen von Acetaldehyd, Benzol, Chloroform, Diacetonalkohol, 1,1, Dichloräthylen, HCFC 225ca, HCFC225cb, Bromfluorkohlenwasserstoff, Mesityloxid, Methylbromid, Methylenchlorid, Pentachloräthan, Perchloräthylen, Tetrabrombisphenol-A, 1,1,2,2 Tetrachloräthan, 1,1,1,2, Tetrachloräthan, Zinnmercaptan, Trichloräthylen ; Änderung der Grenzwerte von Blei und Formaldehyd; Änderung des Datum bei Sechswertigem Chrom. Überarbeitung des Textes in Abschnitt 1 und 3.1.4. Aktualisierung der Kontaktliste. (GM)

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 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.
- Anleitung für das Datenblatt 1** Das Datenblatt 1 ist für alle Teile auszufüllen. Das Datenblatt muß an jedes Werk, zu dem das Teil geliefert wird, gesendet werden. Wird das Teil an mehr als ein Werk geliefert, z.B. GMNA Car Group und Opel, so muß das Datenblatt an beide Werke geliefert werden.
- A Assembly (Asm)/Part Information:** Tabellenkopfzeile - Eingabe der Information, die das zuliefernde Teil bezeichnen, in die Zeilen B bis H.
- B Asm/Part Number:** Eingabe der Teilnummer, die vom Werk, an das das Teil geliefert wird, vergeben wurde.
- C Asm/Part Name:** Eingabe des Teilnamens, der vom Werk, an das das Teil geliefert wird, vergeben wurde.
- D Model Yr/Vehicle Line:** Eingabe des Modelljahres und des Fahrzeugnamens, für das das Teil geliefert wird.
- E Asm/Part Revision Level and Rev. Date:** Eingabe des Änderungsstandes und des Änderungsdatums.
- F Unit Supplied to:** Eingabe des Werkes, an das das Teil geliefert wird. Eine Liste der Werke und die dazugehörigen Kontaktadressen ist im Anhang A enthalten.
- G Asm/Part Mass:** Eingabe des Gesamtgewichtes des Teiles bzw. der Komponente, das bzw. die geliefert wird.
- H Comments:** Eingabe von Bemerkungen, die das Teil näher beschreiben.
- I Manufacturer/Supplier Information:** Tabellenkopfzeile - Eingabe von Lieferanteninformationen in die Zeilen J bis N.
- J Name:** Eingabe des Namens der Kontaktperson des Lieferanten.
- K Company:** Eingabe des Namens der Firma, die das Teil liefert.
- L Department:** Eingabe der Abteilung, zu der die Kontaktperson innerhalb der Firma zugehörig ist.

- 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 "F" Substances Present: If the substance listed is an "F" substance the unit the part is being supplied to must sign the form to approve the use.
- M** Mail Code (if applicable): Eingabe des internen Postcodes, wenn dies erforderlich ist, um innerhalb der Firma die Post zur Kontaktperson zu leiten.
- N** Address: Eingabe der vollständigen Adresse (einschließlich Land), Telefonnummer und Faxnummer.
- O** Declaration section: Ankreuzen des entsprechenden Kästchens. Wenn das Kästchen 1 angekreuzt wird, Unterschrift im Abschnitt T und Vorlage des Datenblattes. Wenn das Kästchen 2 angekreuzt wird, ist die Tabelle P bis S auszufüllen.
- P** Component in Assembly: Wenn der zulieferende Zusammenbau/Teil aus mehreren Komponenten besteht, sind Teilnummern, Teilname und Teilgewicht jeder Komponente, die die anzuzeigende Substanz enthält, anzugeben. Wenn die anzuzeigende Substanz in mehreren Komponenten enthalten ist, sind alle Komponenten aufzuführen. Sind mehr als eine anzuzeigende Substanz enthalten, sind alle Komponenten mit jeder Substanz anzugeben.
- Q** Material/Surface treatment: Angabe des Standards, des Namens und des prozentualen Anteils des Werkstoffs/Oberflächenmaterials an der Komponente, der/das die einzuschränkenden oder anzuzeigenden Substanzen enthält.
- R** Substance: Angabe der CAS-Nummer, des Substanznamens und des prozentualen Anteils der anzuzeigenden Substanz, die im Werkstoff/Oberflächenmaterial der Spalte Q enthalten ist.
- S** Purpose for Use and Plan to Eliminate Use Including Timing and Substitute Substances: Angabe des Grundes warum diese Substanz eingesetzt werden muß. Es sind auch die Pläne anzugeben, die in Angriff genommen werden, um diese Substanz zu beseitigen, zu welchem Datum der Einsatz beseitigt wird und welches die Ersatzsubstanz sein wird.
- T** Supplier Certification: Unterschrift, Name in Druckbuchstaben und Datum um zu bestätigen, daß alle Informationen wahr und korrekt sind.
- U** Unit Approval if "F" Substances Present: Wenn eine Substanz eine gelistete "F"-Substanz ist, muß das Werk an das das Teil geliefert wird, dieses Datenblatt unterschreiben und den Einsatz freigeben.

Contact List

Liste der Ansprechpartner

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