

SAFETY DATA SHEET



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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture WAGNER BRAKE FLUID DOT3

Registration number -

Synonyms None.

Product code MWSFC9184

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Brake fluid.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

Company name Federal-Mogul Global Aftermarket EMEA bv

Address Prins Boudewijnlaan 5

B-2550 Kontich

Belgium

Telephone +32 3 450 83 10

Contact person Braking_EMEA@DRiV.com

1.4. Emergency telephone number 3E Global Incident Response Hotline

+44 20 35147487

Access code: 335908

Poison Information Centre telephone number +39 800 011 858

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, oral Category 4 H302 - Harmful if swallowed.

Serious eye damage/eye irritation Category 1 H318 - Causes serious eye damage.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Diethylene glycol, Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol

Hazard pictograms



Signal word Danger

Hazard statements

H302 Harmful if swallowed.

H318

Causes serious eye damage.

Precautionary statements**Prevention**

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P280 Wear eye protection/face protection.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTRE/doctor.

Storage

None.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information on the label

None.

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
 The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.
 The mixture does not contain any substances having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol	45 - 70	- 907-996-4	01-2119475115-41-XXXX	-	
Classification: Eye Dam. 1;H318					
Specific Concentration Limits: Eye Dam. 1;H318: C ≥ 30 %, Eye Irrit. 2;H319: 20 % ≤ C < 30 %					
Diethylene glycol	10 - 30	111-46-6 203-872-2	01-2119457857-21-XXXX	603-140-00-6	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw)					
2,6-di-tert-butyl-p-cresol	< 0,2	128-37-0 204-881-4	01-2119480433-40-XXXX	-	
Classification: Aquatic Acute 1;H400, Aquatic Chronic 1;H410(M=1)					

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.
 M: M-factor

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures**General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

Inhalation Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	Will burn if involved in a fire.
5.1. Extinguishing media	
Suitable extinguishing media	Water spray, dry powder or carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Follow standard emergency procedure. Avoid breathing mist/vapours. Wear appropriate personal protective equipment (See Section 8).
For emergency responders	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Use water spray to reduce vapours or divert vapour cloud drift. The product is soluble in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Avoid contact with eyes and prolonged skin contact. Do not taste or swallow. Avoid prolonged exposure. Do not eat, drink or smoke when using the product. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store in a dry well ventilated area and protect from damage and direct sunlight. Store away from incompatible materials (see section 10 of the SDS).
7.3. Specific end use(s)	Brake fluid.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Italy. OELs

Components

2,6-di-tert-butyl-p-cresol
(CAS 128-37-0)

Type

TWA

Value

2 mg/m³

Form

Inhalable fraction and vapour.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General population

Components	Value	Assessment factor	Notes
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)			
Long-term, Systemic, Dermal	0,25 mg/kg	100	Repeated dose toxicity
Long-term, Systemic, Inhalation	0,435 mg/m3	25	Repeated dose toxicity
Long-term, Systemic, Oral	0,25 mg/kg	100	Repeated dose toxicity
Diethylene glycol (CAS 111-46-6)			
Long-term, Local, Inhalation	12 mg/m3	10	respiratory tract irritation
Long-term, Systemic, Dermal	21 mg/kg bw/day	210	Repeated dose toxicity
Long-term, Systemic, Inhalation	12 mg/m3		respiratory tract irritation
Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol (CAS -)			
Long-term, Systemic, Dermal	125 mg/kg	40	Repeated dose toxicity
Long-term, Systemic, Inhalation	117 mg/m3	10	Repeated dose toxicity
Long-term, Systemic, Oral	12,5 mg/kg	40	Repeated dose toxicity

Workers

Components	Value	Assessment factor	Notes
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)			
Long-term, Systemic, Dermal	0,5 mg/kg	50	Repeated dose toxicity
Long-term, Systemic, Inhalation	1,76 mg/m3	12,5	Repeated dose toxicity
Diethylene glycol (CAS 111-46-6)			
Long-term, Local, Inhalation	60 mg/m3	2	respiratory tract irritation
Long-term, Systemic, Dermal	43 mg/kg bw/day	105	Repeated dose toxicity
Long-term, Systemic, Inhalation	44 mg/m3		
Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol (CAS -)			
Long-term, Systemic, Dermal	208 mg/kg	24	Repeated dose toxicity
Long-term, Systemic, Inhalation	195 mg/m3	6	Repeated dose toxicity

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)			
Freshwater	0,199 µg/l	1000	
Marine water	0,02 µg/l	10000	
Secondary poisoning	16,67 mg/kg	30	Food
Sediment (freshwater)	0,458 mg/kg		
Sediment (marine water)	0,046 mg/kg		
Soil	0,054 mg/kg		
STP	0,017 mg/l	100	
Diethylene glycol (CAS 111-46-6)			
Freshwater	10 mg/l	10	
Intermittent releases	10 mg/l		
Marine water	1 mg/l	100	
Sediment (freshwater)	20,9 mg/kg		
Sediment (marine water)	2,09 mg/kg		
Soil	1,53 mg/kg		
STP	199,5 mg/l	10	
Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol (CAS -)			
Freshwater	4,5 mg/l	100	
Marine water	0,31 mg/l	1000	
Secondary poisoning	111 mg/kg	90	Oral
Sediment (freshwater)	6,6 mg/kg	1000	
Sediment (marine water)	0,66 mg/kg	10000	
Soil	1,32 mg/kg		
STP	500 mg/l	10	

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

General information

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear safety glasses with side shields (or goggles). Eye protection should meet standard EN 166.

Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves. Always wear chemical-resistant protective gloves that comply with EN 374 to handle this product. Observe good industrial hygiene practices and wash gloves with soap and water before removing them. Assess the working conditions and always consult your glove supplier for information on the most suitable type of glove for each task and the required material, thickness, and breakthrough time specifications. The use of type-B gloves in accordance with EN 374 is recommended as a minimum protection against intermittent or splash contact. Consult your supplier to find the most suitable option for the product in question. The requirements outlined in EN 407 must be taken into consideration for tasks involving thermal hazards.
- Other	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Respiratory protection	In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment. Respiratory protection should meet standard EN 14387.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Form	Liquid.
Colour	Colourless to amber.
Odour	Characteristic.
Odour threshold	Property has not been measured.
Melting point/freezing point	Property has not been measured.
Boiling point or initial boiling point and boiling range	> 200 °C (> 392 °F)
Flammability	Will burn if involved in a fire.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Property has not been measured.
Explosive limit – upper (%)	Property has not been measured.
Flash point	> 100 °C (> 212 °F)
Auto-ignition temperature	Property has not been measured.
Decomposition temperature	Property has not been measured.
pH	9
Kinematic viscosity	Property has not been measured.
Solubility	
Solubility (water)	Soluble in water.
Partition coefficient (n-octanol/water) (log value)	Not applicable, product is a mixture.
Vapour pressure	Property has not been measured.
Density and/or relative density	
Relative density	1 - 1,1
Vapour density	Property has not been measured.
Particle characteristics	Not applicable, material is a liquid.
9.2. Other information	
9.2.1. Information with regard to physical hazard classes	No relevant additional information available.
9.2.2. Other safety characteristics	
Evaporation rate	Property has not been measured.
Viscosity	1250 cSt (40 °C (104 °F))

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Stable under normal temperature conditions.
10.3. Possibility of hazardous reactions	Will not occur.
10.4. Conditions to avoid	Avoid exposure to high temperatures or direct sunlight. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidizers, strong acids, and strong bases. Strong reducing agents.
10.6. Hazardous decomposition products	Fire or high temperatures create: Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Prolonged skin contact may cause irritation.
Eye contact	Causes serious eye damage.
Ingestion	Harmful if swallowed.

Symptoms Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if swallowed.

Product	Species	Test Results
WAGNER BRAKE FLUID DOT3 (CAS Mixture)		

Acute

Oral

ATE

1538 mg/kg

Components	Species	Test Results
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)		

Acute

Dermal

LD50

Rat

2000 mg/kg

Oral

LD50

Rat

2930 - 6000 mg/kg

Diethylene glycol (CAS 111-46-6)

Acute

Oral

LD50

Rat

16500 mg/kg

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory sensitisation Based on available data, the classification criteria are not met.

Skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

2,6-di-tert-butyl-p-cresol (CAS 128-37-0)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Mixture versus substance information No information available.

11.2. Information on other hazards

Endocrine disrupting properties	This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
Other information	No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

Components		Species	Test Results
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)			
Aquatic			
Algae	EC50	Algae	0,758 mg/l, 96 hours
			> 0,24 - < 10 mg/l, 72 hours
	NOEC	Algae	> 0,24 - < 1,7 mg/l, 72 hours
Acute			
Crustacea	EC50	Aquatic invertebrates	> 0,48 - < 0,61 mg/l, 48 hours
	NOEC	Aquatic invertebrates	> 0,15 - < 0,23 mg/l, 48 hours
Fish	LC50	Fish	> 0,199 - < 0,57 mg/l, 96 hours
Chronic			
Crustacea	EC50	Aquatic invertebrates	< 0,39 mg/l, 21 days
	LOEC	Aquatic invertebrates	1 mg/l, 21 days
	NOEC	Aquatic invertebrates	> 0,023 - < 0,316 mg/l, 21 days
Diethylene glycol (CAS 111-46-6)			
Aquatic			
Algae	NOEC	Algae	100 mg/l, 72 hours
Acute			
Crustacea	EC50	Aquatic invertebrates	100000 mg/l, 24 hours
Fish	LC50	Fish	7520 mg/l, 96 hours
Chronic			
Crustacea	EC50	Aquatic invertebrates	33911 mg/kg/D, 21 days

12.2. Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential No data available for this product.

Partition coefficient n-octanol/water (log Kow)

2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	5,1
Diethylene glycol (CAS 111-46-6)	-1,47

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

12.7. Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code	16 01 13* The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
Class	Not assigned.
Subsidiary risk	-
Hazard No. (ADR)	Not assigned.
Tunnel restriction code	Not assigned.
14.4. Packing group	-
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not assigned.

RID

14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
Class	Not assigned.
Subsidiary risk	-
14.4. Packing group	-
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not assigned.

ADN

14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
Class	Not assigned.
Subsidiary risk	-
14.4. Packing group	-
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not assigned.

IATA

14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
Class	Not assigned.
Subsidiary risk	-
14.4. Packing group	-
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not assigned.

IMDG

14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
Class	Not assigned.
Subsidiary risk	-
14.4. Packing group	-
14.5. Environmental hazards	
Marine pollutant	No.
EmS	Not assigned.

14.6. Special precautions for user Not assigned.

14.7. Maritime transport in bulk according to IMO instruments Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.
DNEL: Derived No-Effect Level.
EC50: Effective Concentration, 50%.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
IMO: International Maritime Organization.
LC50: Lethal Concentration, 50%.
LD50: Lethal Dose, 50%.
NOEC: No observed effect concentration.
PBT: Persistent, bioaccumulative, toxic.
PNEC: Predicted No-Effect Concentration.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

	TWA: Time Weighted Average. vPvB: Very persistent and very bioaccumulative.
References	HSDB® - Hazardous Substances Data Bank ECHA: European Chemical Agency. Registry of Toxic Effects of Chemical Substances (RTECS)
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements, which are not written out in full under sections 2 to 15	H302 Harmful if swallowed. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
This SDS contains revisions in the following section(s):	1, 2, 12, 15, 16
Training information	Follow training instructions when handling this material.
Further information	UFI: VH00-007G-4006-N2A2
Disclaimer	The information provided on this data sheet was abstracted from supplier safety data sheets and standard references in occupational health and toxicology. Federal-Mogul makes no representation or warranty with respect to the information obtained from such references. The information is however, as of the date provided, true and accurate to the best of Federal-Mogul's knowledge, and should be used to make an independent determination of the methods to safeguard workers and the environment.