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 DOT 4

Registration number -

Synonyms None.

Product code MWSFC9196

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

Reproductive toxicity (fertility, the unborn child)	Category 2	H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.

2.2. Label elements

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

Contains: Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] orthoborate

Hazard pictograms

Signal word Warning

Hazard statements

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

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 protective gloves/protective clothing/eye protection/face protection.

Response

P308 + P313	IF exposed or concerned: Get medical advice/attention.

Storage

P405	Store locked up.

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
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] orthoborate	25 - < 30	30989-05-0 250-418-4	01-2119462824-33-XXXX	-	
Classification:	Repr. 2;H361fd				
Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol	15 - < 20	- 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 %				
2-(2-Methoxyethoxy)ethanol	0,1 - < 1	111-77-3 203-906-6	01-2119475100-52-XXXX	603-107-00-6	#
Classification:	Repr. 1B;H360D				
Specific Concentration Limits:	Repr. 1B;H360D: C ≥ 3 %				
2,6-di-tert-butyl-p-cresol	0,1 - < 0,25	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

M: M-factor
#: This substance has been assigned Community workplace exposure limit(s).

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. IF exposed or concerned: Get medical advice/attention. 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 Rinse with water. Get medical attention if irritation develops and persists.

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 Exposed individuals may experience eye tearing, redness, and discomfort.

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. Carbon dioxide (CO2).

Unsuitable extinguishing media Water jet.

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 Use standard firefighting procedures and consider the hazards of other involved materials. Containers close to fire should be removed immediately or cooled with water.

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. Avoid contact with skin and eyes. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained. 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.

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 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapours. Avoid contact with skin and eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protection, see Section 8 of the SDS. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Store locked up. 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	Type	Value	Form
2-(2-Methoxyethoxy)ethanol (CAS 111-77-3)	TWA	50,1 mg/m3	
		10 ppm	

Italy. OELs

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapour.

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU

Components	Type	Value
2-(2-Methoxyethoxy)ethanol (CAS 111-77-3)	TWA	50,1 mg/m3
		10 ppm

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-(2-Methoxyethoxy)ethanol (CAS 111-77-3)			
Long-term, Systemic, Dermal	1,33 mg/kg bw/day	30	Repeated dose toxicity
Long-term, Systemic, Inhalation	30,1 mg/m3		
Long-term, Systemic, Oral	7,5 mg/kg bw/day	120	Repeated dose toxicity
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
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
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] orthoborate (CAS 30989-05-0)			
Long-term, Systemic, Dermal	10 mg/kg	100	Repeated dose toxicity
Long-term, Systemic, Oral	10 mg/kg	100	Repeated dose toxicity

Workers

Components	Value	Assessment factor	Notes
2-(2-Methoxyethoxy)ethanol (CAS 111-77-3)			
Long-term, Systemic, Dermal	2,22 mg/kg bw/day	18	Repeated dose toxicity
Long-term, Systemic, Inhalation	50,1 mg/m3		
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
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
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] orthoborate (CAS 30989-05-0)			
Long-term, Systemic, Dermal	16,7 mg/kg	60	Repeated dose toxicity

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
2-(2-Methoxyethoxy)ethanol (CAS 111-77-3)			
Freshwater	12 mg/l	100	
Intermittent releases	12 mg/l		
Marine water	1,2 mg/l	1000	
Secondary poisoning	0,09 g/kg	200	Oral
Sediment (freshwater)	44,4 mg/kg		
Sediment (marine water)	0,44 mg/kg		
Soil	2,1 mg/kg		
STP	10000 mg/l	1	
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	

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	

Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] orthoborate (CAS 30989-05-0)

Freshwater	0,211 mg/l	1000
Intermittent releases	2,112 mg/l	
Marine water	0,021 mg/l	10000
Sediment (freshwater)	0,76 mg/kg	
Sediment (marine water)	0,076 mg/kg	
Soil	0,028 mg/kg	
STP	100 mg/l	10

Exposure guidelines Follow standard monitoring procedures.

Italy OELs: Skin designation

2-(2-Methoxyethoxy)ethanol (CAS 111-77-3) Danger of cutaneous absorption

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. Observe any medical surveillance requirements.

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	> 230 °C (> 446 °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	> 125 °C (> 257 °F)
Auto-ignition temperature	350 °C (662 °F)
Decomposition temperature	Property has not been measured.
pH	8,9
Kinematic viscosity	14,8 mm²/s (20 °C (68 °F))
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	
Density	1,066 g/cm³
Relative density	1,066
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	Property has not been measured.

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	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed.
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.

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

Acute toxicity

Components	Species	Test Results
2-(2-Methoxyethoxy)ethanol (CAS 111-77-3)		
Acute		
Dermal		
LD50	Rabbit	8980 ml/kg

Components	Species	Test Results
Oral		
LD50	Rat	6700 ml/kg
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

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

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

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 Suspected of damaging fertility. Suspected of damaging the unborn child.

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

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) Not applicable, product is a mixture.

2,6-di-tert-butyl-p-cresol (CAS 128-37-0) 5,1

2-(2-Methoxyethoxy)ethanol (CAS 111-77-3)	-1,18

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil This product is water soluble and may disperse in soil.

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

2-(2-Methoxyethoxy)ethanol (CAS 111-77-3)	30
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] orthoborate (CAS 30989-05-0)	75

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

2-(2-Methoxyethoxy)ethanol (CAS 111-77-3)

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	According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure. 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

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service.
DNEL: Derived No-Effect Level.
EC50: Effective Concentration, 50%.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
IMO: International Maritime Organization.
LD50: Lethal Dose, 50%.
LC50: Lethal Concentration, 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	H318 Causes serious eye damage. H360D May damage the unborn child. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. 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, 3, 5, 6, 7, 8, 9, 11, 12, 15, 16.
Training information	Follow training instructions when handling this material.
Further information	UFI: 3C00-Y0UP-H006-9D4X
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.