

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS #: 083214 TRANSMISSION GEAR 7 80W-90

Date of the previous version: 2016-11-22 Revision Date: 2017-02-13 Version 1.03

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE

COMPANY/UNDERTAKING

1.1. Product identifier

Product name TRANSMISSION GEAR 7 80W-90

Number DEI Substance/mixture Mixture

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

Identified uses Transmission fluid.

1.3. Details of the supplier of the safety data sheet

Supplier TOTAL LUBRIFIANTS

562 Avenue du Parc de L'ile 92029 Nanterre Cedex

FRANCE

Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71

For further information, please contact:

Contact Point HSE

E-mail Address rm.msds-lubs@total.com

1.4. Emergency telephone number

Emergency telephone: +44 1235 239670

France - ORFILA (INRS) Tél: +33 (0)1 45 42 59 59

In France - Poison centers: ANGERS: 02 41 48 21 21 BORDEAUX: 05 56 96 40 80 LILLE: 08 00 59 59 59 LYON: 04 72 11 69 11 MARSEILLE: 04 91 75 25 25 NANCY: 03 83 22 50 50

PARIS: 01 40 05 48 48 STRASBOURG: 03 88 37 37 37 TOULOUSE: 05 61 77 74 47

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008



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For the full text of the H-Statements mentioned in this Section, see Section 2.2.

Classification

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

2.2. Label elements

Labelled according to

REGULATION (EC) No 1272/2008

Hazard Statements

None

Precautionary Statements

None**

Supplemental Hazard Statements

EUH210 - Safety data sheet available on request***

EUH208 - Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl; Reaction product of 1,3,4-thiadiazolidine-2,5-dithione,formaldehyde and phenol,heptyl derivs. May produce an allergic reaction

2.3. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

Environmental properties Should not be released into the environment.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

Hazardous ingredients

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Reg. 1272/2008)
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	931-384-6	01-2119493620-38	۸	1-<2.5	Acute Tox. 4 (H302) Aquatic Chronic 2 (H411) Eye Dam. 1 (H318) Skin Sens. 1 (H317)
(Z)-octadec-9-enylamine	204-015-5	no data available	112-90-3	0.25-<1	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Asp. Tox. 1 (H304) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) STOT SE 3 (H335) STOT RE 2 (H373) Acute M factor = 10



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					Chronic M factor = 10
Reaction product of	-	01-2119971727-23	۸	0.1-<1	Skin Irrit. 2 (H315)
1,3,4-thiadiazolidine-2,5-dithi					Eye Dam. 1 (H318)
one,formaldehyde and					Skin Sens. 1B (H317)
phenol,heptyl derivs.					Aquatic Chronic 3 (H412)
					Flam. Liq. 3 (H226)

Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4: FIRST AID MEASURES

4.1. Description of first-aid measures

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin contact Remove contaminated clothing and shoes. Wash skin with soap and water. Wash

contaminated clothing before reuse.

High pressure jets may cause skin damage. Take victim immediately to hospital.

Inhalation Move to fresh air.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a

physician or Poison Control Center immediately.

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

Eye contact Not classified. The supplier of some components contained within this formulation has

indicated that the classification as irritant is not required.

Skin contactNot classified. An additive present in the composition of this product would require a

classification, however available experimental data indicate that no classification is

required. May produce an allergic reaction.

Inhalation Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory

system.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media



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Suitable Extinguishing Media Carbon dioxide (CO₂). ABC powder. Foam. Water spray or fog.

Unsuitable Extinguishing MediaDo not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Special Hazard Incomplete combustion and thermolysis may produce gases of varying toxicity such as

carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may

be highly dangerous if inhaled in confined spaces or at high concentration.

5.3. Advice for fire-fighters

Special protective equipment for

fire-fighters

Wear self-contained breathing apparatus and protective suit.

Other information Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing

water must be disposed of in accordance with local regulations.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General InformationDo not touch or walk through spilled material. Contaminated surfaces will be extremely

slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all

sources of ignition.

6.2. Environmental precautions

General Information Do not allow material to contaminate ground water system. Try to prevent the material from

entering drains or water courses. Local authorities should be advised if significant spillages

cannot be contained.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g.

sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for

disposal.

6.4. Reference to other sections

Personal Protective Equipment See Section 8 for more detail.

Waste treatment See section 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8. Use only in



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well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes

and clothing.

Prevention of fire and explosion Take precautionary measures against static discharges. Ground/bond containers, tanks

and transfer/receiving equipment.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of

contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been

contaminated with product. Do not put product contaminated rags into workwear pockets.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

Materials to Avoid Strong oxidizing agents.

7.3. Specific end uses

Specific use(s)No information available.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits Mineral oil mist:

USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH

(TLV) TWA 5 mg/m³ (highly refined)

Legend See section 16

DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl ^			12.5 mg/kg/8h (dermal) 8.56 mg/m³/8h (inhalation) (ECHA CHEM)	
Reaction product of			2.35 mg/m ³ (inhalation)	



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1,3,4-thiadiazolidine-2,5-dithione,formaldehyde and phenol,heptyl derivs.	66.7 mg/kg bw/day (dermal)
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DNEL Consumer

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl			6.25 mg/kg/24h (dermal) 2.2 mg/m³/24h (inhalation) 0.25 mg/kg/24h (oral) (ECHA CHEM)	
Reaction product of 1,3,4-thiadiazolidine-2,5-dithione,formaldehyde and phenol,heptyl derivs.			0.58 mg/m³ (inhalation) 33.33 mg/kg bw/day (dermal) 0.33 mg/kg bw/day (oral)	

Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	0.0012 mg/l fw 0.00012 mg/l mw	3.13 mg/kg fw	2.54 mg/kg soil dw	či	24.33 mg/l	10 mg/kg food
Reaction product of 1,3,4-thiadiazolidine -2,5-dithione,formal dehyde and phenol,heptyl derivs.	0.0026 mg/l mw	1108.6 mg/kg dw fw 110.86 mg/kg dw mw	221.48 mg/kg dw		45.5 mg/l	6.7 mg/kg

8.2. Exposure controls

Occupational Exposure Controls

Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.



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Personal Protective Equipment

General Information If the product is used in mixtures, it is recommended that you contact the appropriate

protective equipment suppliers. These recommendations apply to the product as supplied.

When workers are facing concentrations above the exposure limit they must use Respiratory protection

appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN

14387). Type A/P1. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

If splashes are likely to occur, wear:. Safety glasses with side-shields. **Eye Protection**

Skin and body protection Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

Hand Protection Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. In case of prolonged contact

> with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the

appropriateness of its use and its replacement frequency.

Environmental exposure controls

General Information The product should not be allowed to enter drains, water courses or the soil.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Color yellow To dark brown

Color code 2.5-6 liauid Physical State @20°C

Odor Characteristic

Odor Threshold No information available

Property Values Remarks Method

Not applicable Melting point/range Not applicable

Boiling point/boiling range No information available

Flash point > 180 °C > 356 °F

Evaporation rate No information available Flammability Limits in Air No information available

No information available upper No information available Lower Vapor Pressure

No information available

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Vapor density No information available

 Relative density
 0.890 - 0.900
 @ 15 °C

 Density
 890 - 900 kg/m³
 @ 15 °C

 Water solubility
 Insoluble

Water solubility Insoluble
Solubility in other solvents No information available

logPowNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information available

 Viscosity, kinematic
 132 - 148 mm2/s
 @ 40 °C
 ISO 3104

 14.30 - 15.00 mm2/s
 @ 100 °C
 ISO 3104

Explosive propertiesOxidizing Properties
Not explosive
Not applicable

Possibility of hazardous reactions No information available

9.2. Other information

Freezing Point No information available

Pour point -24 °C ISO 3016

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

General Information No information available.

10.2. Chemical stability

Stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Reactions None under normal processing.

10.4. Conditions to Avoid

Conditions to Avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

10.5. Incompatible materials

Materials to Avoid Strong oxidizing agents.

10.6. Hazardous Decomposition Products

Hazardous Decomposition Products None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes

and soot.

Section 11: TOXICOLOGICAL INFORMATION



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11.1. Information on toxicological effects

Acute toxicity Local effects Product Information

Skin contact . Not classified. An additive present in the composition of this product would require a

classification, however available experimental data indicate that no classification is

required. May produce an allergic reaction.

Eye contact . Not classified. The supplier of some components contained within this formulation has

indicated that the classification as irritant is not required.

Inhalation . Not classified. Inhalation of vapors in high concentration may cause irritation of

respiratory system.

Ingestion . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

ATEmix (inhalation-dust/mist) 426.40 mg/l ATEmix (inhalation-vapor) 1,680.60 mg/l

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl	LD50 2000 mg/kg bw (Rat - OECD TG 401)		-
(Z)-octadec-9-enylamine	LD50 1689 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat)	
Reaction product of 1,3,4-thiadiazolidine-2,5-dithione,formaldeh yde and phenol,heptyl derivs.	LD50 >2000 mg/kg (Rat)	LD50 >2000 mg/kg (Rat - OECD 402)	

Sensitization

Sensitization Not classified as a sensitizer. The supplier of one of the components contained within this

formulation has indicated that they have data, which confirms that at the concentration used, no sensitisation classification is required . Contains sensitizer(s). May produce an

allergic reaction.

Specific effects

CarcinogenicityThis product is not classified carcinogenic. **Mutagenicity**This product is not classified as mutagenic.

Reproductive toxicityThis product does not present any known or suspected reproductive hazards.

Repeated Dose Toxicity

Subchronic toxicity No information available.

Target Organ Effects (STOT)

Target Organ Effects (STOT) No information available.

Other information

Other adverse effects Characteristic skin lesions (pimples) may develop following prolonged and repeated

exposures (contact with contaminated clothing).



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Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified. An additive present in the composition of this product would require a classification, however available experimental data indicate that no classification is required.

Acute aquatic toxicity - Product Information

No information available.

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Reaction products of	EL50 (96h) > 15 mg	EL50 (48h) ca. 91.4 mg/l	LL50 (96h) ca. 24 mg/l	3.0
4-methyl-2-pentanol and	(Selenastrum capricornutum	(Daphnia magna - OECD	(Oncorhynchus mykiss -	
diphosphorus pentasulfide,	- OECD 201)	202)	OECD 203)	
propoxylated, esterified with	,	- ,		
diphosphorus pentaoxide,	Pseudokirchnerella			
and salted by amines,	subcapitata - OECD 201)			
C12-14- tert-alkyl	EC50 (96h) 15 mg/l			
^	(Pseudokirchnerella			
	subcapitata - OECD 201)			
	EC50 (96h) 6.4 mg/L			
	(Selenastrum			
	capricornutum- OECD TG			
	201) (ECHA CHEM)			
(Z)-octadec-9-enylamine	EC50 (96h) 0.03 mg/l	EC50 (48h) 0.011 mg/l	LC50 (96h) 0.11 mg/l (Fish)	
112-90-3	(Algae)	(Daphnia magna)	, , , , ,	
Reaction product of	EC50(72h) 25 mg/l	LE50(48h) 75 mg/l (Daphnia	LL50 (96h) 26 mg/l	
1,3,4-thiadiazolidine-2,5-dithi	(Pseudokirchnerella	magna)	(Oncorhynchus mykiss)	
one,formaldehyde and	subcapitata)		, , ,	
phenol,heptyl derivs.				
^				

Chronic aquatic toxicity - Product Information

No information available.

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and	Toxicity to fish	Toxicity to
		other aquatic invertebrates		microorganisms
Reaction products of	NOEC (96h) 1.7 mg/l	EL50 (21d) 0.91 mg/l	-	EC50 (3h) ca. 2433 mg/L
4-methyl-2-pentanol and	(Pseudokirchnerella	(Daphnia magna - OECD		(Activated Sludge, domestic
diphosphorus pentasulfide,	subcapitata - OECD 201)	211)		- OECD TG 209) (ECHA
propoxylated, esterified with	par NOEC (96h) 3.3 mg/l	NOEL (21d) 0.12 mg/l		CHEM)
diphosphorus pentaoxide,	(Pseudokirchnerella	(Daphnia magna - OECD		
and salted by amines,	subcapitata - OECD 201)	211)		
C12-14- tert-alkyl		EL50 (21d) 0.66 mg/l		
^		(Daphnia magna - OECD		
		211)		
Reaction product of		NOEC(21d) 0.12 mg/l		
1,3,4-thiadiazolidine-2,5-dithi		(Daphnia magna)		



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one,formaldehyde and		
phenol,heptyl derivs.		
^		

Effects on terrestrial organisms

No information available.

12.2. Persistence and degradability

General Information

No information available.

12.3. Bioaccumulative potential

Product Information No information available.

logPow No information available

Component Information

Chemical Name	log Pow
Reaction products of 4-methyl-2-pentanol and diphosphorus	< 0.30 to >7.10 (OECD TG 117) (ECHA CHEM)
pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and	
salted by amines, C12-14- tert-alkyl - ^	

12.4. Mobility in soil

Soil Given its physical and chemical characteristics, the product generally shows low soil

mobility.

Air Loss by evaporation is limited.

Water Insoluble. The product spreads on the surface of the water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

General Information No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products

Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden.



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Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EWC Waste Disposal No. The following Waste Codes are only suggestions:. 13 02 05. According to the European

Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was

used.

Section 14: TRANSPORT INFORMATION

ADR/RID Not regulated

IMDG/IMO Not regulated

ICAO/IATA Not regulated

ADN Not regulated

Section 15: REGULATORY INFORMATION

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

European Union

Further information

No information available

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H373 - May cause damage to the kidneys/ liver/ eyes/ brain/ digestive system/ central nervous system through prolonged or repeated exposure if swallowed



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H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

dw = dry weight fw = fresh water mw = marine water or = occasional release

Legend Section 8

TWA: Time Weight Average STEL: Short Time Exposure Limit PEL: Permissible exposure limit REL: Recommended exposure limit TLV: Threshold Limit Values

+ Sensitizer * Skin designation

** Hazard Designation C: Carcinogen

M: Mutagen R: Toxic to reproduction

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Revision Note*** Indicates updated section.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.



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End of the Safety Data Sheet