

Beiblatt zum Sicherheitsdatenblatt / Supplement to the safety data sheet

Abschnitt 1 / Section 1

- 1.1 Produktidentifikation / Product identification
- 1.2 Verwendungen des Stoffs / Uses of the substance
- s. Original-Datenblatt / see original safety data sheet
- s. Original-Datenblatt / see original safety data sheets. Original-Datenblatt / see original safety data sheet

1.3 Einzelheiten zum Lieferanten / Details of the supplier

Firmenname / Supplier Stürmer Maschinen GmbH,
Straße / Street Dr.-Robert-Pfleger-Str. 26,
Ort / City D-96103 Hallstadt

Tel. / Phone +49 (0)951 96555 - 0 (07:00 - 17:00 Uhr / 07:00 am - 05:00 pm)

E-Mail / E-Mail info@stuermer-maschinen.de

1.4 Notrufnummer / Emergency Telephone

Wählen Sie die passende Notrufnummer anhand des GHS-Symbols auf Ihrem Gefahrgut oder entsprechend Abschnitt 2.2 des orig. Sicherheitsdatenblattes *. Call the appropriate emergency number using the GHS symbol on your dangerous goods or according to section 2.2 of the original safety data sheet *.

GHS Gefahren- piktogramm / GHS symbol	GHS-Kürzel/ GHS-no.	Mögliche Signalwörter/ Warning	Gefährdungsklassen / Description of hazards	Notrufnummer */ Emergency Phone *
	GHS01 bis GHS09			+49 (0)951 96555 - 590 Sammelnotrufnummer Gefahrstoffe
	GHS01	Gefahr oder Achtung / Danger or Attention	Explosive Stoffe/Gemische und Erzeugnisse mit Explosivstoff, selbstzersetzliche Stoffe/Gemische, organische Peroxide / Explosive substances / mixtures and products containing explosives, self-reactive substances / mixtures, organic peroxides	- 591
(8)	GHS02	Gefahr oder Achtung / Danger or Attention	Selbstzersetzliche Stoffe/Gemische, organische Peroxide, entzündbare Gase, Aerosole Flüssigkeiten, Feststoffe, selbsterhitzungsfähige Gemische, pyrophore Flüssigkeiten und Feststoffe, Stoffe/Gemische, die bei Berührung mit Wasser entzündbare Gase bilden / Self-reactive substances / mixtures, organic peroxides, flammable gases, aerosols, liquids, solids, self-heating mixtures, pyrophoric liquids and solids, substances / mixtures which form flammable gases on contact with water	- 592
®	GHS03	Gefahr oder Achtung / Danger or Attention	Oxidierende Gase, Flüssigkeiten, Feststoffe / Oxidizing gases, liquids, solids	- 593
	GHS04	Achtung / Attention	Verdichtete, verflüssigte, gelöste und tiefgekühlt verflüssigte Gase / Compressed, liquefied, dissolved and refrigerated liquefied gases	- 594
	GHS05	Gefahr oder Achtung / Danger or Attention	Verätzung der Haut, schwere Augenschäden, auch metallkorrosive Eigenschaften / Chemical burns to the skin, severe eye damage, also metal-corrosive properties	- 595
	GHS06	Gefahr / Danger	Äußerst schwere und schwere akute Gesundheitsschäden oder Tod / Extremely severe and severe acute damage to health or death	- 596
<u>(!)</u>	GHS07	Achtung / Attention	Akute Gesundheitsschäden, Reizung der Haut, der Augen und der Atemwege, Sensibilisierung der Haut, narkotisierende Wirkungen / Acute damage to health, irritation of the skin, eyes and the respiratory tract, sensitization of the skin, narcotic effects	- 597
&	GHS08	Gefahr oder Achtung / Danger or Attention	Chronische Gesundheitsschäden (Organschädigungen) bei einmaliger oder mehrmaliger Exposition, krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkungen, Lungenschäden durch Eindringen von Substanzen in die Lunge (Aspirationsgefahr), Sensibilisierung der Atemwege / Chronic damage to health (damage to organs) after single or multiple exposure, carcinogenic, mutagenic and reproductive effects, lung damage due to the penetration of substances into the lungs (risk of aspiration), sensitization of the respiratory tract	- 598
E	GHS09	Achtung oder ohne Signalwort/ Attention or without wording	Giftig für Wasserorganismen mit kurz- und langfristiger Wirkung / Toxic to aquatic organisms with short and long-term effects	- 599

^{* 07:00 - 17:00} Uhr, außerhalb dieses Zeitraums kann die Nummer auf dem Sicherheitsdatenblatt angerufen werden / 07:00 am - 05:00 pm, outside this time, the number on the safety data sheet can be called

Für alle anderen Informationen siehe Original-Sicherheitsdatenblatt / For all other information, see the original safety data sheet

OLIO PER GRANDI COMPRESSORI SAE 10W/40

[9280038] Product code: 1033 Previous review: 05/11/10

PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

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

Intended use

2.2. Label elements.

1.3 Details of the supplier of the safety data sheet

1.4 Emergency Telephone Number

OLIO PER GRANDI COMPRESSORI SAE 10W/40

Semi synthetic lubricating engine oil

NOVA STILMOIL S.p.A. Via Aldrovandi, 98 41123 MODENA (Italy)

+39 (0)59 827752 +39 (0)59 820119 info@stilmoil.it <u>aboratorio@stilmoil.it</u>

Nova Stilmoil S.p.A. +39 (0)59 827752 8:00-12:30 - 14:00-18:00 (Italian time)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This product is not hazardous according to dir. 67/548/CEE e 1999/45/CE:

This product is not labelled as hazardous according to dir. 67/548/CEE e 1999/45/CE

Pictograms: None Warnings: None Risk phrases: None Safety phrases: None

2.3 Other hazards. The product for its intended use presents no risk to users. However, repeated and prolonged contact, together with poor hygiene con cause skin rashes and irritation

COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances 3.2 Mixtures

Not applicable

Base substances of preparation:

Synthetic oil, multifunctional package, additives, antioxidants, PPD, VII with chemical

additives

3.2.1

Hazardous components	Conc. %	67/548/CEE Classification	1272/2008 (CLP) Classification
Lubricating oils (petroleum) CAS 101316-72-7 CE 309-877-7 REACH-Reg N°. 01-2119489969-06-XXXX	70-80	None	None
Polyoleifin poliyamine succinimide, polyol CAS 147880-09-9	2-3	R 53	Aquatic Chronic4 H413
Zinc alkyl dithiophosphate CAS 68649-42-3 CE 272-028-3 REACH-Reg No 01-2119657973-23- XXXX	1-1,4	Xi/R41, N/R51/53	Aquatic Chronic2 H411; Eye Dam 1/H318
Calcium long chain alkaryl sulfonate CAS 722503-68-6 CE Polymer	0.1-0.6	Xi/R43, R53	Aquatic Chronic4 H413 Skin Sens. 1/H317
Branched alkylphenol and Calcium branched alkylphenol CAS 74499-35-7 & 132752-19-3 CE Polymer	0.1	Xi/R36/38, T/Repro. Cat. 2/R60, N/R50/53	Aquatic Chronic 1/H410; Eye Irrit. 2/H319; Repr. 1B/H360; Skin Irrit. 2/H315

See section 16 for complete map of the risk phrases

Substances without classification may have Community exposure limits in the workplace.

Unless indicated, the Registration N. is not currently available or required by REACH

Base oils used by Nova Stilmoil SpA have a value in extracts in DMSO (determined with method IP 346) lower than 3% and therefore they are classified not carcinogenic according to the directive 94/69/CE note L (introduced for the first time together with the 21st adjustment to technical progress of directive 67/548/CE).

FIRST AID MEASURES

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4.1 First aid measures description.

Inhalation If exposed to high concentration of vapours and mists, take the person away from the contaminated area to a well ventilated area and send for a doctor if necessary. Skin Take off immediately all contaminated clothing and wash with plenty of soap and water.

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During accidents with pipes under pressure and similar, any substance can accidentally be injected into tissues under the skin, even without apparent surface damage. In that case, the injured person must be taken to hospital immediately for suitable care. High pressure injection injuries require prompt surgical intervention to minimise tissue damage and loss of function.

Eyes Rinse immediately with plenty of water for a long time helding open eyelid. Seek medical advise if the pain and redness persists

Ingestion Do not cause the vomit in order to avoid aspiration of the substance through the respiratory treat. Consult for a doctor.

4.2. Acute and delayed most important symptoms.

4.3. Statement of the need to consult immediate medical attention and special treatment needed.

See Section 11

See Section 4.1

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing devices: Use extinguishing devices for class B fires: carbon dioxide, dry chemical powder, foam, sprayed water, sand, earth.

Unapproriate extingushing devices: Avoid using water jets. Only use water jets to cool surfaces of containers exposed to fire.

5.2 Special hazards arising from the substance or mixture.

5.3 Advice for firefighters

Avoid breathing combustion fumes because a fire produces: unburned hydrocarbons, carbon oxides, compounds of sulfur, phosphorous, nitrogen, zinc (See Section 10.6) Complete protective clothing with breathing apparatus. Use SCBA for organic fumes and when heavy smoke occurs. Avoid accidental spillage of product on hot surfaces or

electrical contacts.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes by wearing suitable protective clothing.

6.2 Environmental precautions

Avoid the product being dispersed or flowing into the ground, the sewers and surface waters. If necessary inform competent local authorities.

6.3 Methods and material for containment and cleaning up

Dyke great leakages of product. Contain the spreading of small product quantities with earth, sand or other inert absorbent material. Transfer the waste into suitable impermeable containers, able to store and transport the material collected. Dispose of it according to the legislation in force

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid direct contact with product.

Avoid breathing aerosols or vapours of product, assuring a correct ventilation of the working place, especially if this latter is restricted.

Do not smoke Do not use open flames. Do not open container at the workplace, to prevent of vapors at high concentration

7.2 Conditions for safe storage, including any incompatibilities

Keep the product in its original containers, stored in an environment and under conditions that assure control and containment of leakage.

Store in a cool place, far from heat sources or of possible ignition source and from direct exposure to sunrays. Avoid accumulating electrostatic charges. Keep containers tightly closed. Assure adequate ventilation of premises

Non

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

7.3 Specific final uses

Limit values for occupational exposure: TLV/TWA mineral oil 5 mg/mc (ACGIH).



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Derived No-Effect Level (DNEL):

Ingredient	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Notes
Paraffinic base oil	Worker	inhalation	Chronic, local effects	8 H	5.4 mg/m ³	(aerosol)
Farannic base on	Consumer	inhalation	Chronic, local effects	8 H	1.2 mg/m ³	(aerosol)

Predicted No-Effect Concentration (PNEC): Unavailable

8.2 Exposure controls, Personal protective equipment

8.2.1 General protective and hygienic measures

8.2.2 Respiratory protection

8.2.3 Hand protection

8.2.4 Eye protection

8.2.5 Skin protection

Avoid aerosol and mists production. It is recommended to place the machinery in airy places or remove aerosols with suitable equipments

It's important to maintain good personal hygiene and clean work clothes. Do not eat, drink or smoke with dirty hands of the product. Wash your hands before going to the bathroom. Do not dry hands with dirty or greasy rags. Change clothes if they are soaked and, in any case, after work. Wash with soap and water, do not use solvents or other irritant products to prevent defatting of the skin.

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If the operational mode and other means to limit worker exposure are not adequate – in respect of the exposure limits if specified in heading 8.0 – other measures to protect the human breathing apparatus are needed: gas masks with organic vapour cartridge and for dusts/mists (e.g. mask with charcoal filters).

Wear work gloves (e.g. in neoprene, nitrile or PVC), preferably plush-lined, resistant to mineral oils or solvents. Gloves must be replaced at first signs of wear. Put on gloves after washing hands carefully. When contact is not prolonged, the use of barrier creams can be a useful protection instrument. The choice of protective gloves also depends on use conditions and must follow manufacturer indications.

For further information, refer to UNI EN 374-1, 374-2, 374-3 norms

Wear safety goggles when contact with the product is possible. For further information,

refer to UNI EN 166 norm

Wear overalls or aprons made of a suitable material; change immediately contaminated clothing and wash it carefully before using it again.

For further information refer to UNI EN 465, 466, 467 norms

CHEMICAL - PHYSICAL PROPERTIES

9.1 Information on basic physical and chimica properties

Colour Odour **Odour threshold** pH Pour Point (ASTM D 97) Initial boiling point Flash Point (ASTM D 92) Evaporation rate Flammability Flammability upper value

State at 20°C

Flammability lower value Vapour pressure Vapour density Density (15°) (ASTM D 1298) Solubility (water)

Partition coefficient n octanol / water **Auto-ignition temperature** Decomposition temperature

Kinematic Viscosity @40°C **Explosive properties Oxidizing properties**

9.2 Other information

Characteristic Not determinable Not determinable No data available No data available > 200 °C No data available No data available No data available No data available Not applicable Not applicable 0.885 g/cm³ insoluble No data available Uninflammable No data available ≈ 90 cSt No

Fluid

amber

No data available

STABILITY AND REACTIVITY 10.

10.1 Reactivity

Avoid contact with strong acids and bases and oxidising chemicals

10.2 Stability

The compound is stable at normal conditions

10.3 Possibility of hazardous reactions

No hazardous reaction known

No

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10.4 Conditions to avoid 10.5 Incompatible materials 10.6 Hazardous decomposition products Avoid contact with heat, sparks, flames, hot surfaces strong acids and bases and oxidising chemicals carbon oxides, sulfur, phosphorous, nitrogen, zinc oxides

11. TOXICOLOGICAL INFORMATION

There is no toxicological data on the mixture. The toxicological information listed below is related to the most abundant substances in the mixture According to the data of substances and similar components can be deduced that: exposure to a high concentration of vapor or mist may be irritating. This product if swallowed, may cause irritation to gastrointestinal tissues, nausea, vomiting, diarrhea. Frequent and prolonged contacts may degrease and irritate the skin, also causing dermatitis. General advise:High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed It may cause slight irritation.

11.1 Information on toxicological effects

General data: The formulation has been classified using the conventional method by Directive 1999/45/EC. The available health / ecological information for the substances listed in section 3 and below.

Please note that the information presented in this section are related to the category of refined lubricating oil (IP 346 <3%)

Acute toxicity:

Hazardous component	Parameter	Value	Application rules	Exposition time	Species	Method
	DL50	> 5000 mg/kg	Oral		Rat (M/F)	OECD Guideline 401
mineral oil (IP 346 < 3%)	CL50	> 5.53 mg/l	Inahalation	4 h	Rat (M/F)	aerosol OECD Guideline 403
	DL50	> 5000 mg/kg			Rabbit	OECD Guideline 402

Corrosion/skin irritation:

Hazardous component	Outcome	Exposure Time	Species	Method
mineral oil	Irritating Erythema average score: 1/8 Edema average score: 0/8	24h 24h	Rabbit	Not following OECD Guideline 404,but adequate
(IP 346 < 3%)	Irritating Erythema average score: 0.17/8 Edema average score: 0.25/8	24h 24h	Rabbit	equivalent to OECD Guideline 404

Serious eye damage / eye irritation:

Serious eye damage / eye	intation:			
Hazardous component	Outcome	Exposure	Species	Method
		Time	орос.ос	
		Tille		
	Not irritating			
mineral oil	Cornea average score: 0/8 (48h)	04/40/70	D-1-1-14	OFOR Ossidalia - 405
(IP 346 < 3%)	Iris average score: 0/8 (48h)	24/48/72	Rabbit	OECD Guideline 405
,	Conjunctiva average score:0.33/8 (48h)			

Skin Sensitization:

Hazardous component	Outcome	Exposure Time	Species	Method
mineral oil (IP 346 < 3%)	Not sensitizing (0/10)	-	Guinea Pig	Buehler test Guideline OECD 406

Germ cell mutagenicity:

Hazardous component	Outcome	Study type / Assumption pathway	Metabolic activation / Exposure Time	Species	Method
mineral oil (IP 346 < 3%)	Negative	Ames's test Doses: 50 µl/plate	With activation	Salmonella thyphimurium TA 98	Equivalent to OECD Guideline 471
Inititletation (IF 340 < 3%)	Negative	In vivo		Mouse	Equivalent to OECD guideline 474

Carcinogenicity: refined base mineral oils (IP 346 < 3%) did not show any evidence of carcinogenetic activity in dermal carcinogenetic samples.

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Hazardous component	Outcome	Application rules	Exposure Time	Species	Method		
mineral oil (IP 346 < 3%)	not carcinogenic (no effect detected)	Dermal	Exposition 78 weeks Doses: 0.2 e 0.25 ml	Mouse (F)	Equivalent to OECD Guideline 451		

Reproductive toxicity:refined base mineral oils (IP 346 < 3%) did not show any evidence on reproductive capacity. For this reason they're not classified for this hazard.

Hazardous component	Outcome	Application rules	Treatment	Species	Method
mineral oil (IP 346 < 3%)	NOAEL (G) > 1000 mg/kg/g (M/F) NOAEL (N) > 1000 mg/kg/g (M/F)	Screening, Oral (gavage)	Doses: 1000 mg/kg/g	Rat (m/f)	OECD Guideline 421

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Developmental toxicity/teratogenicity: For refined mineral base oils (IP 346 < 3%), studies on human growth hasn't shown any teratogenic effect. For this reason no hazard classification in developmental toxicity is needed

Hazardous component	Outcome	Application rules	Treatment	Species	Method
mineral oil (IP 346 < 3%)	LOAEL (maternal toxicity):125 mg/kg/g (irritation) NOAEC (toxicity on growth): 2000 mg/kg/g (no effect)	Dermal	Doses:0,125, 500, 2000 mg/kg/g	Rat	Equivalent to OECD Guideline 414

Specific Target Organ Toxicity (STOT) single exposure: No data available

Specific Target Organ Toxicity (STOT) repeated exposure:

Refined Jubricating oil (IP 346 < 3%) were not classified in accordance with the regulations on dangerous substances

Hazardous component	Outcome	Application	Exposure time/	Species	Method
		rules	Treatment frequency		
	NOAEL (not identified) LOAEL: 125 mg/kg/g	Oral	Subcronical exposure (90 days) 125 – 500 mg/kg/g (gavage)	Rat (M)	OECD Guideline 408
mineral oil (IP 346 < 3%)	NOAEL (M/F): >980 mg/m3 NOEL: ca 220 mg/m3l	Inhalation (aerosol)	(28 gg)	Rat (M/F)	OECD Guideline 412
	NOAEL (M/F) > 2000mg/kg	Dermal	Exposure: subcronical	Rat (M/F)	OECD Guideline 411

12. ECOLOGICAL INFORMATION

Use in accordance with good practice's standards and avoid littering. Prevent dispersions on soil, water surface and drainage systems (see also sections 6.7.13.14 and 15)

Ecological general data: The formulation has been classified using the conventional method by Directive 1999/45/EC. There are no data available on the mixture; the available health / ecological information for the substances listed in section 3 and below. Do not discharge in sewers, underground passages or waterways

12.1. Toxicity

Hazardous component	Value type	Value	Acute Toxicity Study	Exposure Time	Species	Method
	EL50 NOEL	> 10000 mg/l (WAF) > 10000 mg/l (WAF)	Short term	48h: 48h:	Daphnia magna	OECD Guideline 202
mineral oil (IP 346 < 3%)	NOEL	10 mg/l	Long term	21days	Daphnia magna	OECD 211
	NOEL	> 100 mg/l (WAF)	Short term	72h	Algae: Raphidocelis subcapitata	OECD Guideline 201
	LL50 NOEL	> 100 mg/l > 100 mg/l	Short term	96h: 96ore:	Fish: Pimephales Promelas	-
	NOEL	> 1000 mg/l	Long term	14 days:	Fish: Oncorhynchus mykiss	QSAR

12.2 Persistence and degradability No data available Though not classified as dangerous for the environment, it thinks that the product is not readily biodegradable.

Hazardous component	Application rules	Degradability	Method

12.3 Bioaccumulative potential / 12.4 Mobility in soil No data available

1210 Bloadountalative potentiar, 1214 mobility in con 110 data available.									
Hazardous component	LogKow	Bioconcentration Factor (BCF)	Exposure Time	Method					

 $\textbf{12.5 Results of PBT and vPvT assessment} \ \textbf{Upon the available informations}, \ \textbf{the mixture's components}, \ \textbf{are not PBT and vPvB}$

12.6 Other adverse effects None

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Dispose of exhausted products according to local or national legislations. **Contaminated containers:** according to local or national legislations.

14. TRANSPORT INFORMATION

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Land transport (ADR/RID) Not classified as hazardous Sea transport (cod. IMGD) Not classified as hazardous Air transport (IATA/ICAO) Not classified as hazardous

REGULATORY INFORMATION

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

Dir 67/548/CEE (Classification, Packaging and Labelling of dangerous goods) and all following updates. Dir 99/45/CE (Classification, Packaging and Labelling of dangerous goods) and all following updates. Reg. n° 1907/2006/CE (REACH) Reg. n° 1272/2008 (CLP) Reg. n° 790/2009/CE (amending, for the purposes of adaptation to technical progress and scientific, ATP of reg n° 1272/2008/CE) and following updates and Dir

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D.Lgs 81/2008. Reg n° 648/2004/CE related to detergents and following updates.

Unavailable

15.2 Chemical safety assessment

H Hazard phrases

OTHER INFORMATION 16.

General indication Do not use the product for uses that are not indicated. In this case, the user could be subject to unforeseen risks.

The information has been drafted to the best of our knowledge. It is for information purposes and is not a guarantee. The product is used under User control and it is their responsibility to adapt to the correct usage conditions indicated on the SDS and to adapt to suitable industrial hygiene practice. This document does not replace the chemical risk

analysis which is the employer's complete responsibility.

Sheet provided according to Regulation 453/201/UE - Annex I for the preparation of Document references Material Safety Data Sheet

Sections modified from latest version: all Review. R risk phrases R 36/38 Irritating to eyes and skin R 41 Risk of serious damage to eyes

R 43 May cause sensitisation by skin contact

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment

R 53 May cause long-term adverse effects in the aquatic environment

R 60 May impair fertility H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage. H319 Causes serious eye irritation

H360 May damage fertility or the unborn child H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects H413 May cause long lasting harmful effects to aquatic life

Acronims, symbols and abbreviations

ADR Agreement concerning the international carriage of Dangerous goods by Road ACGIH American Conference of Governmental Industrial Hygienists

CLP Classification, Labeling & Packaging DNEL Derived No Effect Level

IATA International Air Transport Association ICAO diInternational Civil Aviation Organisation, IMGD International Maritime Dangerous Good PBT Persistent, bioaccumulative and toxic

PNEC Predicted No Effect Concentration REACH Registration, Evaluation and Authorization of Chemicals

RID Règlement concernent le transport International ferroviaire des marchandises Dangereuses

TLV Threshold Limit Value TWA Time Weighted Average

UE Unione Europea vPvB very Persistent very Bioaccumulative