

## Safety Data Sheet

### OPTIVIS

#### Contains

Severely refined mineral oils

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

#### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

#### Other Hazards:

Physical / Chemical Hazards:

No significant hazards.

Health hazards: Subcutaneous injection at high pressure can cause serious damage.

Excessive exposure may cause eye, skin or respiratory irritation.

Environmental hazards: do not dispose of the product in the environment

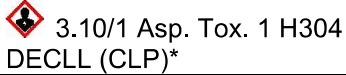

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
$\geq 90\%$	Severely refined mineral oils	EC: #	
$\geq 1\% - < 2.5\%$	Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	EC: 940-730-5 REACH No.: 01-21198265 92-36	

\*DECLL (CLP): Substance classified in accordance with Note L, Annex VI of EC Regulation (EC) 1272/2008. The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

L'olio minerale contenuto può essere descritto da una o più delle seguenti: CE 265-158-7, REACH n. 01-2119487077-29, Distillati (petrolio), frazione paraffinica leggera idrotrattata; CE. 265-156-6, REACH n. 01-2119480375-34, Distillati (petrolio), naftenici leggeri idrotrattati; CE. 934-956-3, REACH n.01-2119827000-58 Idrocarburi, C15-C20, n-alcani, isoalcani, ciclici, <0.03% aromatici

More references at Section 16 for component regulation.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Wash contact areas with soap and water.

If the product is injected into or under the skin, or in any part of the body, immediately show the patient to a doctor as a surgical emergency. Although the initial symptoms of high-pressure injection may be minimal or absent, early surgical treatment within a few hours may reduce significantly the final extent of the lesion.

In case of eyes contact:

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Rinse with large amount of water. If irritation occurs, seek medical attention.

In case of Ingestion:

In any case, assume that an aspiration has taken place in the lungs. Do not induce vomiting. It can enter the lungs and damage them. If vomiting occurs, the head should be kept low so that the vomit does not enter the lungs.

Consult a specialist doctor or transfer the victim to a hospital.

Do not wait for symptoms to appear.

In case of Inhalation:

Keep patient calm, remove to fresh air, seek medical attention.

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

Local necrosis, highlighted by principle of pain and damage to tissues delayed, which arise a few hours after injection.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatic. If large quantities are ingested or inhaled, contact a poison control centre immediately.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water spray. Foam. Multi-purpose powders. Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

Avoid using direct jets of water on the burning product.

### 5.2. Special hazards arising from the substance or mixture

Incomplete combustion may generate a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide, H<sub>2</sub>S, SO<sub>x</sub> (sulfur oxides), sulfuric acid or unidentified organic and inorganic compounds.

Hazardous combustion products:

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Incomplete combustion may generate a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide, H<sub>2</sub>S, SO<sub>x</sub> (sulfur oxides), sulfuric acid or unidentified organic and inorganic compounds.

### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Avoid contact with spilled material. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders:

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Respiratory protection: half-face or full-face respirator with filter(s) for organic vapor and, when applicable, H<sub>2</sub>S, or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to aromatic hydrocarbons are recommended. Note: gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible.

#### 6.2. Environmental precautions

Notify the competent authorities if the product has reached water courses or sewers or if it has contaminated the ground or vegetation. Take measures to minimize the effects on the aquifer.

Water Spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Land Spill: Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent.

#### 6.3. Methods and material for containment and cleaning up

For containment:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations.

Large spills:

Reclaim liquid directly or in an adsorbent such as sand, earth, vermiculite, diatomite and collect it in containers.

For cleaning up:

Consult an expert to dispose of the recovered material in compliance with the regulations in force.

#### 6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with current legislation. Store in the original closed container. Keep the product in cool and ventilated areas, away from heat sources and direct sunlight. The electrical equipment used must comply with local fire prevention regulations for materials of this type.

Drinking, eating and smoking in areas where the product is handled, stored or processed is prohibited. Avoid leakage to prevent slipping.

LOADING / UNLOADING TEMPERATURE ° C: Ambient

STORAGE TEMPERATURE ° C: Room Temperature, protect from sunlight

STATIC ACCUMULATOR: This material is a static accumulator

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Keep away from food, drink and feed.  
Incompatible materials:  
See subsection 10.5  
Instructions as regards storage premises:  
Cool and adequately ventilated.  
Safety electric system.

#### 7.3. Specific end use(s)

The material can accumulate static energy charges which can cause sparks (source of ignition). When the material is managed in bulk, a source of ignition can ignite flammable vapors or residues that may be present (eg during loading / unloading operations). Use appropriate storage and grounding procedures. Section 1 Information on identified end use. No industry guidance available.

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## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Severely refined mineral oils  
ACGIH - TWA(8h): 5 mg/m<sup>3</sup> - STEL(15 min): 10 mg/m<sup>3</sup>

#### DNEL Exposure Limit Values

Severely refined mineral oils  
Worker Professional: 5.4 mg/m<sup>3</sup> - Consumer: 1.2 mg/m<sup>3</sup> - Exposure: Human Inhalation  
- Frequency: Long Term, local effects

#### PNEC Exposure Limit Values

N.A.

#### 8.2. Exposure controls

##### 8.2.1 SUITABLE TECHNICAL CONTROLS:

The level of protection and the types of controls required vary according to the conditions of potential exposure. Control measures to consider: No special requirements under normal conditions of use and with adequate ventilation.

Personal monitoring of the working environment may be required to determine the effectiveness of ventilation or other control measures and / or the need to use respiratory protective equipment. (Refer to EN 689 for the assessment of exposure by inhalation to chemical agents and national guidance documents on methods for the determination of hazardous substances)

In some cases, it will be necessary to flush the fumes, add filters or make technical changes to the process equipment to reduce the emission to acceptable levels.

##### 8.2.2 INDIVIDUAL PROTECTION MEASURES, AS INDIVIDUAL EXPOSURE DEVICES.

###### Eye protection:

The use of protections according to the European standard EN166 is recommended.  
If contact with the eyes is likely, wear glasses with side protection.

###### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

###### Protection for hands:

Protective gloves suitable for chemical agents (EN 374)  
Gloves resistant to oils and solvents (neoprene, PVC, nitrile: 4-8 hours permeation time, CEN standard EN 420, 374, 388 have the general requirements and list the types of gloves).  
Replace the gloves at the first signs of wear.

###### Respiratory protection:

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode.

CEN EN 136,140,145 provide recommendations on masks, EN 149,143 on filters

###### Thermal Hazards:

Do not heat above the flash point.

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Environmental exposure controls:

Limit the discharge to air, water and soil according to the applicable regulations. Protect the environment by applying control measures to limit emissions.

Appropriate engineering controls:

None

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Not applicable	--	--
Colour:	Red	--	--
Odour:	Slightly hydrocarbons	--	--
Melting point/freezing point:	- 50°C	ASTM D 97	--
Boiling point or initial boiling point and boiling range:	>220°C	ASTM D 86	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	155°C	ASTM D 92	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	not technically feasible
Kinematic viscosity:	<= 14 mm <sup>2</sup> /sec (40 °C)	--	--
Solubility in water:	Insolubile	--	--
Solubility in oil:	Complete	--	--
Partition coefficient n-octanol/water (log value):	> 3.5	Estimated	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	0.85 @15°C	ASTM D 4052	--
Relative vapour density:	N.A.	--	--
Volumic mass:	0.85 Kg/L @ 15°C	ASTM D 4052	--
DMSO extract (IP364):	<3%	--	--
Pour point:	-48°C	ASTM D 97	--

#### Particle characteristics:

Particle size:	N.A.	--	--
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### 9.2. Other information

Properties	Value	Method:	Notes:
Explosive properties:	None	--	--
Viscosity:	10.5 mm <sup>2</sup> /s	--	--
Oxidizing properties:	None	--	--

## SECTION 10: Stability and reactivity

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- 10.1. Reactivity  
See the subsections below.
- 10.2. Chemical stability  
Stable under normal condition of use  
Stable under normal conditions
- 10.3. Possibility of hazardous reactions  
Hazardous polymerization will not occur.
- 10.4. Conditions to avoid  
Keep away from heat sources, open flames, direct sunlight and any other source of ignition.
- 10.5. Incompatible materials  
Strong oxidizers
- 10.6. Hazardous decomposition products  
Under normal conditions of storage and use, hazardous decomposition products should not be produced. The high temperature can lead to the development of harmful and flammable gases or vapors.

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## SECTION 11: Toxicological information

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

Toxicological information of the product:

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- a) acute toxicity  
Not classified  
Based on available data, the classification criteria are not met
- b) skin corrosion/irritation  
Not classified  
Based on available data, the classification criteria are not met
- c) serious eye damage/irritation  
Not classified  
Based on available data, the classification criteria are not met
- d) respiratory or skin sensitisation  
Not classified  
Based on available data, the classification criteria are not met
- e) germ cell mutagenicity  
Not classified  
Based on available data, the classification criteria are not met
- f) carcinogenicity  
Not classified  
Based on available data, the classification criteria are not met
- g) reproductive toxicity  
Not classified  
Based on available data, the classification criteria are not met
- h) STOT-single exposure  
Not classified  
Based on available data, the classification criteria are not met
- i) STOT-repeated exposure  
Not classified  
Based on available data, the classification criteria are not met
- j) aspiration hazard  
The product is classified: Asp. Tox. 1 H304

Toxicological information of the main substances found in the product:  
Severely refined mineral oils

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a) acute toxicity:

Test: LC50 - Route: Oral - Species: Rat > 5000 mg/kg - Notes: similar materials - Based on the available data the classification criteria are not met.

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Notes: similar materials - Based on the available data the classification criteria are not met.

Test: LD50 - Route: Inhalation Mist - Species: Rat > 5000 mg/m<sup>3</sup> - Duration: 4h - Notes: similar materials - Based on the available data the classification criteria are not met.

f) carcinogenicity:

Negative - Notes: similar materials - Based on the available data the classification criteria are not met.

j) aspiration hazard:

Positive - Notes: similar materials - May be fatal in case of ingestion and penetration into the respiratory tract.

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Based on the available data the classification criteria are not met.

Test: LC50 - Route: Inhalation - CONSID07

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Based on the available data the classification criteria are not met.

b) skin corrosion/irritation:

Frequent or prolonged contact may cause irritation and dermatitis.

c) serious eye damage/irritation:

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

d) respiratory or skin sensitisation:

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

e) germ cell mutagenicity:

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

f) carcinogenicity:

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

g) reproductive toxicity:

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

j) aspiration hazard:

May be fatal in case of ingestion and penetration into the respiratory tract.

#### 11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

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## SECTION 12: Ecological information

#### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

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Not classified for environmental hazards

Based on available data, the classification criteria are not met

#### Severely refined mineral oils

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l

Endpoint: EC50 - Species: Daphnia > 100 mg/l

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

a) Aquatic acute toxicity:

Endpoint: LL50 - Species: Fish > 100 mg/l - Based on available data, the classification criteria are not met

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Endpoint: EL50 - Species: Crustacean > 100 mg/l - Based on available data, the classification criteria are not met

Endpoint: EL50 - Species: Algae > 100 mg/l - Based on available data, the classification criteria are not met

Endpoint: IC 50 - Species: Microorganisms > 100 mg/l - Based on available data, the classification criteria are not met

#### 12.2. Persistence and degradability

Severely refined mineral oils

Biodegradability: Inherently biodegradable - Notes: by its nature

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

Biodegradability: Readily biodegradable - Test: OECD 301F - Duration: 28 d - %: 73

#### 12.3. Bioaccumulative potential

Severely refined mineral oils

Bioaccumulation: Potentially bioaccumulative, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

#### 12.4. Mobility in soil

Severely refined mineral oils

Mobility in soil: High mobility into soil is expected due to Log Kow value

#### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

#### 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq$  0.1%

#### 12.7. Other adverse effects

None

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

The waster producer is responsible to determiniate the toxicity and physical properties of the material generated for identify the appropriate waste classification and methods of disposal in compliance with the regulations in force.

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

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### SECTION 14: Transport information

#### 14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

#### 14.2. UN proper shipping name

N.A.

#### 14.3. Transport hazard class(es)

N.A.

#### 14.4. Packing group

N.A.



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- 14.5. Environmental hazards  
N.A.
- 14.6. Special precautions for user  
N.A.
- 14.7. Maritime transport in bulk according to IMO instruments  
N.A.

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#### SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) n. 2020/878  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)  
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:  
Restrictions related to the product:  
Restriction 3  
Restrictions related to the substances contained:  
No restriction.
- Where applicable, refer to the following regulatory provisions :  
Directive 2012/18/EU (Seveso III)  
Regulation (EC) nr 648/2004 (detergents).  
Dir. 2004/42/EC (VOC directive)
- Provisions related to directive EU 2012/18 (Seveso III):  
Seveso III category according to Annex 1, part 1  
None
- 15.2. Chemical safety assessment  
No Chemical Safety Assessment has been carried out for the mixture.  
However a chemical safety assessment was carried out for the dangerous substances contained.

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#### SECTION 16: Other information

Full text of phrases referred to in Section 3:

H304 May be fatal if swallowed and enters airways.

Hazard class and hazard category	Code	Description
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Asp. Tox. 1, H304	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

ECHA

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

The sources of information used in the preparation of this MSDS include one or more of the following: results of toxicological studies of suppliers..

This information is updated to the best of the knowledge available at the date of the last revision.

However, no guarantee is given regarding the accuracy and completeness of the same. It is in fact the responsibility of the user to ensure the suitability and completeness of the information reported, in relation to the particular use that must be made of it.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.

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LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.