Safety Data Sheet
S61 ONELIGHT PUTTY YELLOW

Safety Data Sheet dated 7/12/2016, version 2

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

1.1. Product identifier

Mixture identification:

Trade code and name: S61 ONELIGHT PUTTY YELLOW

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

Polyester filler for auto-body and nautical applications

PC9b Fillers, Putties

Only for professional use.

1.3. Details of the supplier of the safety data sheet

Company:

Industria Chimica Reggiana I.C.R. Spa

Via Gasparini, 7 42124 REGGIO EMILIA Italia

Tel. +39 0522/517803 Fax +39 0522/514384

Competent person responsible for the safety data sheet:

sdsre@icrsprint.it

1.4. Emergency telephone number

Tel. +39 0522-517803

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Warning, Flam. Liq. 3, Flammable liquid and vapour.

Warning, Skin Irrit. 2, Causes skin irritation.

Warning, Eye Irrit. 2, Causes serious eye irritation.

Warning, Repr. 2, Suspected of damaging the unborn child.

Warning, STOT SE 3, May cause respiratory irritation.

Danger, STOT RE 1, Causes damage to organs through prolonged or repeated exposure.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

Danger

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260.F Do not breathe vapours.

P280 Wear protective gloves and eye protection.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Special Provisions:

None

Contains

styrene

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

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

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N.A.

3.2. Mixtures

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

Qty	Name	Ident. Number		Classification
>= 15% - < 20%	styrene	Index number: CAS: EC: REACH No.:	601-026-00-0 100-42-5 202-851-5 01-2119457861-32	2.6/3 Flam. Liq. 3 H226 4.1/C3 Aquatic Chronic 3 H412 3.10/1 Asp. Tox. 1 H304 3.8/3 STOT SE 3 H335 3.7/2 Repr. 2 H361d 3.1/4/Inhal Acute Tox. 4 H332 3.9/1 STOT RE 1 H372 3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319
>= 1% - < 3%	Xylene	Index number: CAS: EC: REACH No.:	601-022-01-6 1330-20-7 215-535-7 01-2119488216-32	2.6/3 Flam. Liq. 3 H226 3.1/4/Inhal Acute Tox. 4 H332 3.1/4/Dermal Acute Tox. 4 H312 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H335 3.2/2 Skin Irrit. 2 H315 3.9/2 STOT RE 2 H373 3.10/1 Asp. Tox. 1 H304
>= 0.1% - < 0.25%	isopentane	Index number: CAS: EC: REACH No.:	601-006-00-1 78-78-4 201-142-8 01-2119475602-38	2.6/1 Flam. Liq. 1 H224 3.10/1 Asp. Tox. 1 H304 3.8/3 STOT SE 3 H336 4.1/C2 Aquatic Chronic 2 H411 EUH066

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. If irritation persists: Get medical advice/attention.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediatley and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult a medic immediately.
Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.
In case of inhalation, consult a doctor immediately and show him packing or label.

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

See section 11 for known symptoms and effects.

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:
None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
CO2 or Dry chemical fire extinguisher.
Extinguishing media which must not be used for safety reasons:
Do not use water jets. Water may noty be effective fire fighting measure, however it can be used to cool closed

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containers close to flames as to avoid bursting and exploding.
None in particular.

5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke. Carbon oxides.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Remove all sources of ignition.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning 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.

6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhaltion of vapours and mists.
Exercise the greatest care when handling or opening the container.
Use localized ventilation system.
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.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities
Always keep in a well ventilated place.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.

7.3. Specific end use(s)
See Point 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
styrene - CAS: 100-42-5
EU - TWA(8h): 85 mg/m3, 20 ppm - STEL(): 170 mg/m3, 40 ppm - Notes: Pelle
ACGIH - TWA(8h): 20 ppm - STEL: 40 ppm - Notes: A4, BEI - CNS impair, URT irr, peripheral neuropathy
Xylene - CAS: 1330-20-7
Italy - TWA(8h): 221 mg/m3, 50 ppm - STEL(): 442 mg/m3, 100 ppm - Notes: Assorbito attraverso la pelle
EU - TWA(8h): 221 mg/m3, 50 ppm - STEL: 442 mg/m3, 100 ppm - Notes: Skin
ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
isopentane - CAS: 78-78-4
EU - TWA(8h): 3000 mg/m3, 1000 ppm
ACGIH - TWA(8h): 1000 ppm - Notes: Narcosis, resp tract irr

DNEL Exposure Limit Values
styrene - CAS: 100-42-5
Worker Professional: 406 mg/kg - Consumer: 343 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 2.1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

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Worker Professional: 85 mg/m³ - Consumer: 10.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 289 mg/m³ - Consumer: 174.25 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 306 mg/m³ - Consumer: 182.75 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Xylene - CAS: 1330-20-7
Worker Professional: 289 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 77 mg/m³ - Consumer: 14.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

styrene - CAS: 100-42-5
Target: Fresh Water - Value: 0.028 mg/l
Target: Marine water - Value: 0.028 mg/l
Target: Freshwater sediments - Value: 0.614 mg/kg
Target: Marine water sediments - Value: 0.0614 mg/kg
Target: Soil (agricultural) - Value: 0.2 mg/kg
Target: 14 - Value: 0.04 mg/l
Target: Purification plant - Value: 5 mg/l

Xylene - CAS: 1330-20-7
Target: STP - Value: 6.58 mg/l
Target: Marine water - Value: 0.327 mg/l
Target: Intermittent emissions - Value: 0.327 mg/l
Target: Freshwater sediments - Value: 12.46 mg/kg
Target: Marine water sediments - Value: 12.46 mg/kg
Target: Soil - Value: 2.31 mg/kg
Target: Fresh Water - Value: 0.327 mg/l

8.2. Exposure controls

Eye protection:
Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:
Wear safety clothing that ensure full skin protection in accordance to EN 14605 Type 4 in case of spills or spray (e.g. Tyrek).
Please note: safety clothing must be changed immediately if it comes in contact with product.

Protection for hands:
Use protective gloves that provides comprehensive protection, EN374 Class 3 (F). Permeation time > 60 minutes; 0.4 mm thickness.

Respiratory protection:
Use respiratory protection where ventilation is insufficient or exposure is prolonged.
Use adequate protective respiratory devices, using Filter “A” (Brown colour) for organic gas and vapors with boiling points over 65°C.

Thermal Hazards:
None

Environmental exposure controls:
Emissions from ventilation systems or from work processes must be check as to ensure compliance to environmental protection legistation. In some cases the addition of vapour scrubbers, filters or other system modification may be necessary in order to reduce emissions to acceptable levels.
None

Appropriate engineering controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	**Value**	**Method:**	**Notes**
Appearance and colour:	Pasta Thixotropic di colore Yellow	--	--
Odour:	Typical of solvent	--	--
Odour threshold:	N.D.	--	--

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pH:	N.A.		
Melting point / freezing point:	-31°C	--	--
Initial boiling point and boiling range:	145°C	--	--
Flash point:	32°C	--	--
Evaporation rate:	N.D.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.D.	--	--
Vapour pressure:	6,67 hPa	--	--
Vapour density:	3,6 (aria= 1)	--	--
Relative density:	1.000 g/cm³	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	N.D.	--	--
Partition coefficient (n-octanol/ water):		--	--
Auto-ignition temperature:	490 °C	--	--
Decomposition temperature:	N.D.	--	--
Viscosity:	> 20.5 mm²/s (40°C)	--	--
Explosive properties:	N.D.	--	--
Oxidizing properties:	N.D.	--	--

9.2. Other information

Properties	**Value**	**Method:**	**Notes**
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under recommended use and storage conditions (see point 7).

10.3. Possibility of hazardous reactions

It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.

10.4. Conditions to avoid

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Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

styrene - CAS: 100-42-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 11.8 mg/l - Duration: 4h
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Notes: OECD 402

i) STOT-repeated exposure:

Test: LOAEL(C) - Route: Oral - Species: Rat = 2000 mg/kg - Notes: bw/day
Test: NOAEL(C) - Route: Oral - Species: Rat = 1000 mg/kg - Notes: bw/day
Test: LOAEL(C) - Route: Inhalation - Species: Rat = 0.21 mg/l

Xylene - CAS: 1330-20-7

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 6350 ppm - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 4350 mg/kg

styrene - CAS: 100-42-5

Symptoms may appear many hours after exposure. Medical observation is therefore necessary for 48 hours after exposure. May cause sleepiness or dizziness. Inhalation: may irritate respitratory tract. Ingestion: may irritate gastrointestinal tract, along with nausea, vomit and diarrea, disorientation. Inhalation, skin contact or ingestion may result in reduced fetal weitht, increase risk of fetal death, skeletal malformations.

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

a) acute toxicity;
b) skin corrosion/irritation;
c) serious eye damage/irritation;
d) respiratory or skin sensitisation;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) STOT-single exposure;
i) STOT-repeated exposure;
j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

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

styrene - CAS: 100-42-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 4.02 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae = 4.9 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia = 4.7 mg/kg - Duration h: 48
Endpoint: EC10 - Species: Algae = 0.28 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 1.01 mg/l - Duration h: 504

Xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24
Endpoint: EC50 - Species: Algae = 4.36 mg/l - Duration h: 73
Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96
Endpoint: NOEC - Species: Algae = 0.44 mg/l - Duration h: 73
Endpoint: NOEC - Species: Daphnia = 1.57 mg/l - Duration h: 504
Endpoint: NOEC - Species: Fish = 1.3 mg/l - Duration h: 1344

12.2. Persistence and degradability

Not persistent.

12.3. Bioaccumulative potential

Not bioaccumulative

12.4. Mobility in soil

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Do not mix with waste water, rain or surface water. Floats on water, evaporates from liquid and solid surfaces but a signicant amount may penerate and pollute water table.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The empty containers must be considered special waste materials to take to dump of type 2B. If previously cleansed, they can be admitted in first class dumps.
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.

SECTION 14: Transport information

ADR/RID-Class
If transported without hardener:
Not liable for receptacles equal or less than 450 litres, transported in accordance with 2.2.3.1.5 ADR.

If transported as Polyester Resin Kit (with hardener):
Limited quantities, not liable to ADR norms for internal packages of up to 5L and a maximum 30 kg per pack.

UN number:	3269
Packing Group:	III
Shipping Name:	Polyester Resin Kit
Transport category :	3
Classification code:	F1
Label:	3

IMDG/IMO
If transported without hardener:

UN number:	1263
Packing Group:	III
Shipping Name:	Paint
Transport category :	3
Class:	3
IMDG-label:	3
IMDG-EMS:	F-E,S-E

If transported as Polyester Resin Kit (with hardener):

UN number:	3269
Packing Group:	III
Shipping Name::	Polyester Resin Kit
Transport category:	3
Class:	3
IMDG-label:	3
IMDG-EMS:	F-E,S-D

Marine pollutant MARPOL (Annex II/III): No

For the correct trasposrt classification according to European decrees pertaining to international transport of dangerous goods by road (ADR) and by sea (IMDG), please refer to the goods' transport documentation.

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) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)

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Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 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
Restriction 40
Restrictions related to the substances contained:
No restriction.
Volatile Organic compounds - VOCs =174.8 g/Kg= 174.76 g/l
Volatile CMR substances = 0.00 %
Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %
Organic Carbon - C = 0.17
Dry weight (% wt):82.52
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):
N.A.
15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information
Full text of phrases referred to in Section 3:
H226 Flammable liquid and vapour.
H412 Harmful to aquatic life with long lasting effects.
H304 May be fatal if swallowed and enters airways.
H335 May cause respiratory irritation.
H361d Suspected of damaging the unborn child.
H332 Harmful if inhaled.
H372 Causes damage to ear through prolonged or repeated exposure via inhalation..
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H312 Harmful in contact with skin.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
H224 Extremely flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

Hazard class and hazard category	**Code**	**Description**
Flam. Liq. 1	2.6/1	Flammable liquid, Category 1
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1

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STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 2: Hazards identification
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SECTION 12: Ecological information
SECTION 15: Regulatory information
SECTION 16: Other information

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**
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 1, H372	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
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.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
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.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
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.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not available
N.D.:	Not determined.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.

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STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average

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