



LCW015 Catalizzatore per prodotti all'acqua - catalyst for waterborne products

Safety Data Sheet dated 6/20/2018, version 1

1. Identification

GHS Product identifier

Mixture identification:
Trade name: Catalizzatore per prodotti all'acqua - catalyst for waterborne products
Other means of identification
Trade code: LCW015

Recommended use and restrictions on use

Recommended use:
Industrial and professional uses (SU3 - SU22)
Catalyst for paints and varnishes

Supplier's details

Company:
NUOVA S.I.V.A.M. SpA - Via Monviso, 10 - 20010 BAREGGIO (MI) - Tel. +39 02 90304.1
Importer:
Quincaillerie Richelieu Ltée/Richelieu Hardware Ltd.
7900 Henri-Bourassa Blvd. W.
Montreal, Quebec, Canada, H4S 1V4
Tel :+1-514-832-4010
Emergency phone number for Canada: Canutec (613) 996-6666
Distributor:
Quincaillerie Richelieu Ltée/Richelieu Hardware Ltd.
7900 Henri-Bourassa Blvd. W.
Montreal, Quebec, Canada, H4S 1V4
Tel :+1-514-832-4010
Emergency phone number for Canada: Canutec (613) 996-6666

Competent person responsible for the safety data sheet:

msds@sivam.it

Emergency phone number

NUOVA S.I.V.A.M. SpA - Tel. +39 02 90304.1 (Monday - Friday 8.00 - 15.00)
Poison Centre - Ospedale di Niguarda - Milan - Tel. +39 02 66101029 (24 h)

2. Hazard identification

Classification of the hazardous product

- Warning, Flam. Liq. 4, Combustible liquid.
- ⚠ Warning, Acute Tox. 4, Harmful if inhaled.
- ⚠ Warning, Skin Irrit. 2, Causes skin irritation.
- ⚠ Danger, Eye Dam. 1, Causes serious eye damage.
- ⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.
- ⚠ Warning, STOT SE 3, May cause respiratory irritation.
- Aquatic Acute 3, Harmful to aquatic life.
- Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

GHS label elements, including precautionary statements

Hazard pictograms:



Danger

Hazard statements:

- H227 Combustible liquid.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
- H402 Harmful to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash ... Thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water/...
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor/...
 P312 Call a POISON CENTER/ doctor/if you feel unwell.
 P321 Specific treatment (see ... On this label).
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P370+P378 In case of fire, use alcohol resistant foam, dry chemical, CO₂, water spray. Do not use water jet.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with applicable regulations.

Special provisions

None

Other hazards

None

Ingredient(s) with unknown acute toxicity

None.

3. Composition/Information on ingredients

Substances

N.A.

Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

Qty	Name	Ident. Number	Classification
>= 40% - < 50%	Hexamethylene diisocyanate, oligomers (biuret type)	CAS: 28182-81-2 EC: 939-340-8 REACH No.: 01-2119970543-34	⚠ A.1/4/Inhal Acute Tox. 4 H332 ⚠ A.4.2/1 Skin Sens. 1 H317 ⚠ A.8/3 STOT SE 3 H335
>= 20% - < 25%	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	CAS: 53880-05-0 EC: 500-125-5	⚠ A.8/3 STOT SE 3 H335
>= 7% - < 10%	Polyoxyethylene tridecyl ether phosphate	CAS: 9046-01-9	⚠ A.2/2 Skin Irrit. 2 H315 ⚠ A.3/1 Eye Dam. 1 H318 ⚠ CAN-HAE/C2 Aquatic Chronic 2 H411
>= 1% - < 3%	Cyclohexyldimethylamine	CAS: 98-94-2 EC: 202-715-5	⚠ B.6/3 Flam. Liq. 3 H226 ⚠ CAN-HAE/A1 Aquatic Acute 1 H400 ⚠ A.1/3/Dermal Acute Tox. 3 H311 ⚠ A.1/3/Inhal Acute Tox. 3 H331 ⚠ A.1/3/Oral Acute Tox. 3 H301 ⚠ A.2/1B Skin Corr. 1B H314
>= 0.1% - < 0.3%	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone diisocyanate	Index number: 615-008-00-5 CAS: 4098-71-9 EC: 223-861-6 REACH No.: 01-2119490408-31	⚠ A.8/3 STOT SE 3 H335 ⚠ A.2/2 Skin Irrit. 2 H315 ⚠ A.4.1/1 Resp. Sens. 1 H334 ⚠ CAN-HAE/C2 Aquatic Chronic 2 H411 ⚠ A.1/2/Inhal Acute Tox. 2 H330
>= 0.1% - < 0.3%	hexamethylene-di-isocyanate	Index number: 615-011-00-1 CAS: 822-06-0 EC: 212-485-8 REACH No.: 01-2119457571-37	⚠ A.1/1/Inhal Acute Tox. 1 H330 ⚠ A.1/4/Oral Acute Tox. 4 H302 ⚠ A.8/3 STOT SE 3 H335 ⚠ A.2/2 Skin Irrit. 2 H315 ⚠ A.4.1/1 Resp. Sens. 1 H334

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4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately 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 an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed, if necessary

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

Treatment:

None

5. Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

In case of fire, use alcohol resistant foam, dry chemical, CO₂, water spray. Do not use water jet.

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the hazardous product

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties:

N.D. in volume

Oxidizing properties:

N.D.

Special protective equipment and precautions for fire-fighters

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.

6. Accidental release measures

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.

Remove persons to safety.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

Methods and material for containment and cleaning up

Wash with plenty of water.

7. Handling and storage

Precautions for safe handling

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

Do not use on extensive surface areas in premises where there are occupants.

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.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

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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.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.
Storage temperature:
Store at ambient temperature.

8. Exposure controls/personal protection

Control parameters

Hexamethylene diisocyanate, oligomers (biuret type) - CAS: 28182-81-2

EU - STEL: 1 mg/m³

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate - CAS: 4098-71-9

ACGIH - TWA(8h): 0.005 ppm - Notes: Resp sens

hexamethylene-di-isocyanate - CAS: 822-06-0

ACGIH - TWA(8h): 0.005 ppm - Notes: URT irr, resp sens

DNEL Exposure Limit Values

Hexamethylene diisocyanate, oligomers (biuret type) - CAS: 28182-81-2

Worker Industry: 0.5 mg/m³ - Worker Professional: 0.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 1 mg/m³ - Worker Professional: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

hexamethylene-di-isocyanate - CAS: 822-06-0

Worker Industry: 0.07 mg/m³ - Worker Professional: 0.07 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 0.07 mg/m³ - Worker Professional: 0.07 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 0.035 mg/m³ - Worker Professional: 0.035 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 0.035 mg/m³ - Worker Professional: 0.035 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

PNEC Exposure Limit Values

Hexamethylene diisocyanate, oligomers (biuret type) - CAS: 28182-81-2

Target: Fresh Water - Value: 0.127 mg/l

Target: Marine water - Value: 0.0127 mg/l

Target: Intermittent emission - Value: 1.27 mg/l

Target: Microorganisms in sewage treatments - Value: 38.3 mg/l

hexamethylene-di-isocyanate - CAS: 822-06-0

Target: Fresh Water - Value: 0.0774 mg/l

Target: Marine water - Value: 0.00774 mg/l

Target: Freshwater sediments - Value: 0.01334 mg/kg

Target: Marine water sediments - Value: 0.001334 mg/kg

Target: Intermittent emission - Value: 0.774 mg/l

Target: Microorganisms in sewage treatments - Value: 8.42 mg/l

Target: Soil (agricultural) - Value: 0.0026 mg/kg

Appropriate engineering controls

None

Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Eye glasses with side protection. (EN166)

Protection for skin:

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

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. (EN374)

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Use adequate protective respiratory equipment.

Thermal Hazards:

None

9. Physical and chemical properties

Appearance and colour: colourless fluid
Odour: typical
Odour threshold: N.D.

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pH:	N.A.
Melting point / freezing point:	N.D. °C
Initial boiling point and boiling range:	N.D. °C
Flash point:	76 °C
Evaporation rate:	N.D.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.D.
Vapour pressure:	N.D. (20 °C)
Vapour density:	> 1
Relative density:	1.080
Solubility in water:	partial, reagisce
Solubility in oil:	partial
Partition coefficient (n-octanol/water):	N.D.
Auto-ignition temperature:	N.D. °C
Decomposition temperature:	N.D. °C
Viscosity:	N.D.

10. Stability and reactivity

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth, alloys in powder or vapours) and powerful reducing agents. It may generate toxic gases on contact with oxidising mineral acids, and powerful oxidising agents. It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.
Conditions to avoid	Stable under normal conditions.
Incompatible materials	None in particular.
Hazardous decomposition products	None.

11. Toxicological information

Information on toxicological effects	
Toxicological information of the product:	Catalizzatore per prodotti all'acqua - catalyst for waterborne products
a) acute toxicity	The product is classified: Acute Tox. 4 H332
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2 H315
c) serious eye damage/irritation	The product is classified: Eye Dam. 1 H318
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1 H317
e) germ cell mutagenicity	Not classified No data available for the product
f) carcinogenicity	Not classified No data available for the product
g) reproductive toxicity	Not classified No data available for the product
h) STOT-single exposure	The product is classified: STOT SE 3 H335
i) STOT-repeated exposure	Not classified No data available for the product
j) aspiration hazard	Not classified No data available for the product
Toxicological information of the main substances found in the product:	Hexamethylene diisocyanate, oligomers (biuret type) - CAS: 28182-81-2
a) acute toxicity:	

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- Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
 Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
 Test: LC50 - Route: Inhalation Mist - Species: Rat = 400 mg/m³ - Duration: 4h - Source: OCSE 403
- 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers - CAS: 53880-05-0
- a) acute toxicity:
 Test: LD50 - Route: Oral - Species: Rat > 14000 mg/kg
 Test: LC50 - Route: Inhalation Mist - Species: Rat > 5.01 mg/l - Duration: 4h
- Cyclohexyldimethylamine - CAS: 98-94-2
- a) acute toxicity:
 Test: LD50 - Route: Oral - Species: Rat = 272 mg/kg
 Test: LD50 - Route: Skin - Species: Rat = 370 mg/kg
 Test: LC50 - Route: Inhalation - Species: Rat = 4.45 mg/l - Duration: 4h
- 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate - CAS: 4098-71-9
- a) acute toxicity:
 Test: LD50 - Route: Oral - Species: Rat = 4825 mg/kg
 Test: LC50 - Route: Inhalation Mist - Species: Rat = 0.123 mg/l - Duration: 4h
- hexamethylene-di-isocyanate - CAS: 822-06-0
- a) acute toxicity:
 Test: LD50 - Route: Oral - Species: Rat = 710 mg/kg
 Test: LC50 - Route: Skin - Species: Rabbit = 570 mg/kg
 Test: LC50 - Route: Inhalation Mist - Species: Rat = 0.124 mg/l - Duration: 4h - Source: OCSE 403

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

None.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

12. Ecological information

Ecotoxicity

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

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The product is classified: Aquatic Acute 3 - H402; Aquatic Chronic 3 - H412

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers - CAS: 53880-05-0

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 3.36 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 3.1 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish > 1.51 mg/l - Duration h: 96

Polyoxyethylene tridecyl ether phosphate - CAS: 9046-01-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 10 mg/l - Duration h: 96

Cyclohexyldimethylamine - CAS: 98-94-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 75 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 2 mg/l - Duration h: 72

hexamethylene-di-isocyanate - CAS: 822-06-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 22 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 89.1 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 77.4 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae = 11.7 mg/l - Duration h: 72

Persistence and degradability

Hexamethylene diisocyanate, oligomers (biuret type) - CAS: 28182-81-2

Biodegradability: Non-readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.

hexamethylene-di-isocyanate - CAS: 822-06-0

Biodegradability: Non-readily biodegradable - Test: Biochemical oxygen demand - Duration h: 28 days - %: 42 -

Notes: N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

None

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13. Disposal considerations

Safe handling and methods for disposal

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.

14. Transport information

UN number

Not classified as dangerous in the meaning of transport regulations.

UN proper shipping name

N.A.

Transport hazard class(es)

N.A.

Packing group

N.A.

Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

N.A.

Special precautions in connection with transport or conveyance

N.A.

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to the Hazardous Products Regulations (HPR) - WHMIS 2015.

NPRI - National Pollutant Release Inventory

Substance(s) listed under NPRI:

None.

DSL inventory - Domestic substances list

no substances listed

NDSL inventory - Not Domestic substances list

no substances listed

TSCA inventory

All the components are listed on the TSCA inventory.

TSCA listed substances:

Hexamethylene diisocyanate, oligomers (biuret type) is listed in TSCA Section 8b

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers is listed in TSCA Section 8b

Polyoxyethylene tridecyl ether phosphate is listed in TSCA Section 8b

Cyclohexyldimethylamine is listed in TSCA Section 8b

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate is listed in TSCA Section 8a -

PAIR, Section 8b, Section 8d HSDR

hexamethylene-di-isocyanate is listed in TSCA Section 8b, Section 8d HSDR.

USA - Federal regulations

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances: 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate.

Section 304 - Hazardous substances: 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate, hexamethylene-di-isocyanate.

Section 313 - Toxic chemical list: 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate, hexamethylene-di-isocyanate.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: hexamethylene-di-isocyanate - Reportable quantity: 100 pounds.

Reportable quantity for mixture: 50000 pounds.

CAA - Clean Air Act

CAA listed substances:

hexamethylene-di-isocyanate is listed in CAA Section 112(b) - HAP.

CWA - Clean Water Act

CWA listed substances:

None.

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USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate
hexamethylene-di-isocyanate.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

Cyclohexyldimethylamine
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate
hexamethylene-di-isocyanate.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate.

Volatile Organic compounds - VOCs = 27.60 %

Volatile Organic compounds - VOCs = 298.08 g/l

Volatile CMR substances = 0.00 %

Organic Carbon - C = 0.14

16. Other information

Full text of phrases referred to in Section 3:

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

H226 Flammable liquid and vapour.

H400 Very toxic to aquatic life.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H330 Fatal if inhaled.

H302 Harmful if swallowed.

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Disclaimer:

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. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet 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.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
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.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program

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OSHA:	Occupational Safety and Health Administration.
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