

Safety Data Sheet



LXA970 ADDITIVO Reticolante prodotti acqua - Crosslinker for WB products

Safety Data Sheet dated 3/20/2023, version 2

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: ADDITIVO Reticolante prodotti acqua - Crosslinker for WB products

Other means of identification:

Trade code: LXA970

Recommended use of the chemical and restrictions on use

Recommended use:

IS- Industrial use

PW - Professional use

Catalyst for paints and varnishes

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

NUOVA S.I.V.A.M. SpA - Via Monviso, 10 - 20008 BAREGGIO (MI) - Tel. +39 02-903041

Importer:

Richelieu America Ltd, 7021 Sterling Ponds Blvd, Sterling Heights, MI 48312-5809 U.S. Tel: +1-800-361-6000.

Emergency phone number for U.S.A.: Chemtrec +1-800-424-9300

Distributor:

Richelieu America Ltd, 7021 Sterling Ponds Blvd, Sterling Heights, MI 48312-5809 U.S. Tel: +1-800-361-6000.

Emergency phone number for U.S.A.: Chemtrec +1-800-424-9300

Competent person responsible for the safety data sheet:

msds@sivam.it

Emergency phone number:

NUOVA S.I.V.A.M. SpA - Tel. +39 02- 903041 (Monday - Friday 8.00 - 15.00)

Poison Centre - Ospedale di Niguarda Ca' Granda - Milan - Tel. +39 02-66101029 (24 h)

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

- ⚠ Warning, Acute Tox. 4, Harmful if swallowed.
- ⚠ Danger, Eye Dam. 1, Causes serious eye damage.
- ⚠ Warning, Skin Sens. 1A, May cause an allergic skin reaction.
- ⚠ Warning, Muta. 2, Suspected of causing genetic defects.
- ⚠ Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.
- ⚠ Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Label elements

Hazard pictograms:



Danger

Hazard statements:

H302 Harmful if swallowed.

H314 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

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H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P201 Obtain special instructions before use.

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

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash ... Thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Immediately call a POISON CENTER/doctor/... if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER/doctor/...

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see ... On this label).

P330 Rinse mouth.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

NFPA rating:



HMIS rating:

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HEALTH	*	3
FLAMMABILITY		0
PHYSICAL HAZARD		1
PERSONAL PROTECTION		G

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

Qty	Name	Ident. Number	Classification
>= 90%	Polyfunctional Aziridine EC 939-180-9	CAS: 64265-57-2 EC: 939-180-9 REACH No.: 01-2119963929-15	⚠ A.1/4/Oral Acute Tox. 4 H302 ⚠ A.3/1 Eye Dam. 1 H318 ⚠ A.4.2/1A Skin Sens. 1A H317 ⚠ A.5/2 Muta. 2 H341 ⚠ A.9/2 STOT RE 2 H373 ⚠ US-HAE/C2 Aquatic Chronic 2 H411
100 ppm	2-dimethylaminoethanol; N,N-dimethylethanolamine	Index number: 603-047-00-0 CAS: 108-01-0 EC: 203-542-8 REACH No.: 01-2119492298-24	⚠ B.6/3 Flam. Liq. 3 H226 ⚠ A.3/1 Eye Dam. 1 H318 ⚠ A.2/1B Skin Corr. 1B H314 ⚠ A.1/4/Oral Acute Tox. 4 H302 ⚠ A.1/4/Dermal Acute Tox. 4 H312 ⚠ A.1/3/Inhal Acute Tox. 3 H331 Specific Concentration Limits: C >= 5%: STOT SE 3 H335
50 ppm	2-methylaziridine; propyleneimine	Index number: 613-033-00-6 CAS: 75-55-8 EC: 200-878-7	⚠ B.6/2 Flam. Liq. 2 H225 ⚠ A.6/1B Carc. 1B H350 ⚠ A.3/1 Eye Dam. 1 H318 ⚠ US-HAE/C2 Aquatic Chronic 2 H411 ⚠ A.1/2/Oral Acute Tox. 2 H300 ⚠ A.1/1/Dermal Acute Tox. 1 H310 ⚠ A.1/2/Inhal Acute Tox. 2 H330 Specific Concentration Limits: C >= 0,01%: Carc. 1B H350

4. FIRST-AID MEASURES

Description of necessary 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:

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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:

Give nothing to eat or drink.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

None

Indication of 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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

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 persons to safety.

See protective measures under point 7 and 8.

Methods and materials 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.

Exercise the greatest care when handling or opening the container.

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

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.

Conditions for safe storage, including any incompatibilities

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Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Storage temperature:

Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

2-methylaziridine; propyleneimine - CAS: 75-55-8

ACGIH - TWA(8h): 0.2 ppm - STEL: 0.4 ppm - Notes: Skin, A3 - URT irr, kidney dam

DNEL Exposure Limit Values

Polyfunctional Aziridine EC 939-180-9 - CAS: 64265-57-2

Worker Industry: 1.62 mg/m³ - Worker Professional: 1.62 mg/m³ - Consumer: 0.972 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 8.4 mg/m³ - Worker Professional: 8.4 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 11.1 mg/m³ - Worker Professional: 11.1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 0.023 mg/kg - Worker Professional: 0.023 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Consumer: 0.278 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

2-dimethylaminoethanol; N,N-dimethylethanolamine - CAS: 108-01-0

Worker Industry: 7.4 mg/m³ - Worker Professional: 7.4 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 1.04 mg/kg - Worker Professional: 1.04 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

Polyfunctional Aziridine EC 939-180-9 - CAS: 64265-57-2

Target: Fresh Water - Value: 0.0055 mg/l

Target: Marine water - Value: 0.00055 mg/l

Target: Freshwater sediments - Value: 0.066 mg/kg

Target: Marine water sediments - Value: 0.003 mg/kg

Target: Microorganisms in sewage treatments - Value: 10 mg/l

Target: Soil (agricultural) - Value: 0.0033 mg/kg

Target: Intermittent emission - Value: 0.055 mg/l

2-dimethylaminoethanol; N,N-dimethylethanolamine - CAS: 108-01-0

Target: Fresh Water - Value: 0.066 mg/l

Target: Marine water - Value: 0.0066 mg/l

Target: Freshwater sediments - Value: 0.053 mg/kg

Target: Intermittent emission - Value: 0.066 mg/l

Target: Microorganisms in sewage treatments - Value: 10 mg/l

Target: Soil (agricultural) - Value: 0.0177 mg/kg

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Eye glasses with side protection. (EN166)

Protection for skin:

Chemical protection clothing.

Protection for hands:

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

Respiratory protection:

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Combination filtering device (DIN EN 141).

Thermal Hazards:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Liquid, Light yellow
Odour:	typical
Odour threshold:	N.D.
pH:	Not Relevant
Melting point / freezing point:	- 58 °C
Initial boiling point and boiling range:	> 175 °C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.D.
Vapour density:	N.A.
Flash point:	253 °C
Evaporation rate:	N.D.
Vapour pressure:	< 0.01 kPa (20 °C)
Relative density:	1.070 - 1.080
Solubility in water:	34.9 g/l
Solubility in oil:	soluble
Partition coefficient (n-octanol/water):	1.4
Auto-ignition temperature:	345 °C
Decomposition temperature:	> 175 °C
Viscosity:	N.D.
Miscibility:	N.D.
Fat Solubility:	N.D.
Conductivity:	N.D.
Substance Groups relevant properties	N.A.

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) and powerful reducing agents.

It may generate toxic gases on contact with oxidising mineral acids, halogenated organic substances, organic peroxides and hydroperoxides, and powerful oxidising agents.

It may catch fire on contact with 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:

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a) acute toxicity

The product is classified: Acute Tox. 4 H302

ATEmix - Oral 500,075 mg/kg bw

b) skin corrosion/irritation

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- Not classified
No data available for the product
- c) serious eye damage/irritation
The product is classified: Eye Dam. 1 H318
- d) respiratory or skin sensitisation
The product is classified: Skin Sens. 1A H317
- e) germ cell mutagenicity
The product is classified: Muta. 2 H341
- 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
Not classified
No data available for the product
- i) STOT-repeated exposure
The product is classified: STOT RE 2 H373
- j) aspiration hazard
Not classified
No data available for the product
- Toxicological information of the main substances found in the product:
- Polyfunctional Aziridine EC 939-180-9 - CAS: 64265-57-2
- e) germ cell mutagenicity:
Test: Mutagenesis Positive
- 2-dimethylaminoethanol; N,N-dimethylethanolamine - CAS: 108-01-0
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 2000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 1214 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 1641 Ppm - Duration: 4h
- Polyfunctional Aziridine EC 939-180-9 - CAS: 64265-57-2
Long exposures can have mutagenic or cancerogenic effects and exposures to high concentrations of vapors can cause allergies to the respiratory apparatus.
The product must be used for professional use only.
Personal use or retail sale is forbidden.
The product must be carefully handled to avoid any contact with the user.
- Substance(s) listed on the NTP report on Carcinogens:
2-methylaziridine; propyleneimine.
- Substance(s) listed on the IARC Monographs:
2-methylaziridine; propyleneimine - Group 2B.
- Substance(s) listed as OSHA Carcinogen(s):
None.
- Substance(s) listed as NIOSH Carcinogen(s):
2-methylaziridine; propyleneimine.

12. ECOLOGICAL INFORMATION

- Ecotoxicity
Adopt good working practices, so that the product is not released into the environment.
- ADDITIVO Reticolante prodotti acqua - Crosslinker for WB products
The product is classified: Aquatic Chronic 2 - H411
- Polyfunctional Aziridine EC 939-180-9 - CAS: 64265-57-2
- a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Algae = 5.5 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia = 81 mg/l - Duration h: 48

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b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Algae = 0.92 mg/l - Duration h: 72
2-dimethylaminoethanol; N,N-dimethylethanolamine - CAS: 108-01-0

a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 98.37 mg/l - Duration h: 48

Persistence and degradability
Polyfunctional Aziridine EC 939-180-9 - CAS: 64265-57-2
Biodegradability: Non-readily biodegradable - Test: CO2 production - Duration h: 28 days - %: 1

Bioaccumulative potential
N.A.

Mobility in soil
N.A.

Other adverse effects
None

13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal 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.

14. TRANSPORT INFORMATION



UN number
ADR-UN Number: 3082
DOT number: UN3082
IATA-UN Number: 3082
IMDG-UN Number: 3082

UN proper shipping name
ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Polyfunctional Aziridine EC 939-180-9)
DOT-Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Polyfunctional Aziridine EC 939-180-9)
IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Polyfunctional Aziridine EC 939-180-9)
IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Polyfunctional Aziridine EC 939-180-9)

Transport hazard class(es)
ADR-Class: 9
DOT Hazard Class: 9
ADR - Hazard identification number: 90
IATA-Class: 9
IATA-Label: 9
IMDG-Class: 9

Packing group
ADR-Packing Group: III
DOT Packing group: III
IATA-Packing group: III
IMDG-Packing group: III

Environmental hazards
ADR-Environmental Pollutant: Yes

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IMDG-Marine pollutant: Marine Pollutant
 Most important toxic component: Polyfunctional Aziridine EC 939-180-9
 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)
 N.A.
 Special precautions
 DOT Special provisions: 8, 146, 173, 335, IB3, T4, TP1, TP29
 ADR-Subsidiary hazards: -
 ADR-S.P.: 274 335 375 601
 ADR-Transport category (Tunnel restriction code): 3 (-)
 IATA-Passenger Aircraft: 964
 IATA-Subsidiary hazards: -
 IATA-Cargo Aircraft: 964
 IATA-S.P.: A97 A158 A197
 IATA-ERG: 9L
 IMDG-EmS: F-A , S-F
 IMDG-Subsidiary hazards: -
 IMDG-Stowage and handling: Category A
 IMDG-Segregation: -

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory.

TSCA listed substances:

Polyfunctional Aziridine EC 939-180-9 is listed in TSCA Section 8b

2-dimethylaminoethanol; N,N-dimethylethanolamine is listed in TSCA Section 8b

2-methylaziridine; propyleneimine is listed in TSCA Section 8b.

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: 2-methylaziridine; propyleneimine.

Section 304 – Hazardous substances: 2-methylaziridine; propyleneimine.

Section 313 – Toxic chemical list: 2-methylaziridine; propyleneimine.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: 2-methylaziridine; propyleneimine - Reportable quantity: 1 pounds.

Reportable quantity for mixture: 20000 pounds.

CAA - Clean Air Act

CAA listed substances:

2-dimethylaminoethanol; N,N-dimethylethanolamine is listed in CAA Section 112(b) - HON 100 ppm

2-methylaziridine; propyleneimine is listed in CAA Section 112(b) - HAP, Section 112(r) 50 ppm.

CWA - Clean Water Act

CWA listed substances:

None.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

2-methylaziridine; propyleneimine - Listed as carcinogen.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

2-dimethylaminoethanol; N,N-dimethylethanolamine

2-methylaziridine; propyleneimine.

New Jersey Right to know

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

2-dimethylaminoethanol; N,N-dimethylethanolamine

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2-methylaziridine; propyleneimine.
Pennsylvania Right to know
Substance(s) listed under Pennsylvania Right to know:
2-dimethylaminoethanol; N,N-dimethylethanolamine
2-methylaziridine; propyleneimine.

Volatile Organic compounds - VOCs = 0.01 %
Volatile Organic compounds - VOCs = 0.11 g/l
Volatile CMR substances = 0.00 %
Organic Carbon - C = 0.00

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H312 Harmful in contact with skin.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H225 Highly flammable liquid and vapour.
H350 May cause cancer.
H300 Fatal if swallowed.
H310 Fatal in contact with skin.
H330 Fatal if inhaled.

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Sections modified from the previous revision:

2. HAZARD(S) IDENTIFICATION
3. COMPOSITION/INFORMATION ON INGREDIENTS
7. HANDLING AND STORAGE
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
9. PHYSICAL AND CHEMICAL PROPERTIES
11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION
SECTION 14: Transport information
15. REGULATORY INFORMATION

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.
ATE: Acute Toxicity Estimate
ATEmix: Acute toxicity Estimate (Mixtures)
CAS: Chemical Abstracts Service (division of the American Chemical Society).

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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
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