# Safety Data Sheet according to Regulation (EC) No. 2015/830

## SECTION 1: Identification of the Substance/Mixture and the Company/Undertaking

**1.1 Product Identifier**

**Product Name:** THINNER N° 33 EU

**Revision Date:** 24/10/2017

**Supercedes Date:** New SDS

**Version Number:** No Information

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

Thinner for industrial coatings - Industrial use

**1.3 Details of the supplier of the safety data sheet**

**Importer:**

StonCor Europe
9, Rue du Travail - 1400 Nivelles, Belgium

**Manufacturer:**

StonCor Europe
9 Rue du Travail
1400 Nivelles
Belgium

Regulatory / Technical Information:
+32 67493710 Nivelles, Belgium

**Datasheet Produced by:** Diepstraten, Guus - ehs@stoncor.com

**1.4 Emergency telephone number:**

CHEMTREC +1 703 5273887 (Outside US)
PPC +1 412 6816669 (Outside US)
Centro Antiveleni di Roma +39 06 49978000 (CAV Policlinico Umberto I - Roma)(24h/24h)
Emergenza ambientale +39 335-601 32 88 / +39 347-949 84 88 / +39 348-246 90 99

## SECTION 2: Hazard Identification

**2.1 Classification of the substance or mixture**

**Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008**

**HAZARD STATEMENTS**

| | |
|---|---|
| Flammable Liquid, category 3 | H226 |
| Aspiration Hazard, category 1 | H304 |
| Skin Irritation, category 2 | H315 |
| Eye Irritation, category 2 | H319 |
| Acute Toxicity, Inhalation, category 4 | H332 |
| STOT, single exposure, category 3, RTI | H335 |
| STOT, single exposure, category 3, NE | H336 |

| | |
|---|---|
| Hazardous to the aquatic environment, Chronic, category 2 | H411 |

### 2.2 Label elements

**Symbol(s) of Product**

**Signal Word**

Danger

**Named Chemicals on Label**

1-methoxypropan-2-ol, 2-butoxyethanol, n-butyl acetate, Solvent naphtha (petroleum), light arom.

**HAZARD STATEMENTS**

| | | |
|---|---|---|
| Flammable Liquid, category 3 | H226 | Flammable liquid and vapour. |
| Aspiration Hazard, category 1 | H304 | May be fatal if swallowed and enters airways. |
| Skin Irritation, category 2 | H315 | Causes skin irritation. |
| Eye Irritation, category 2 | H319 | Causes serious eye irritation. |
| Acute Toxicity, Inhalation, category 4 | H332 | Harmful if inhaled. |
| STOT, single exposure, category 3, RTI | H335 | May cause respiratory irritation. |
| STOT, single exposure, category 3, NE | H336 | May cause drowsiness or dizziness. |
| Hazardous to the aquatic environment, Chronic, category 2 | H411 | Toxic to aquatic life with long lasting effects. |

**PRECAUTION PHRASES**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P240 | Ground/bond container and receiving equipment. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/ face protection. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position 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 so. Continue rinsing. |
| P331 | Do NOT induce vomiting. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

### 2.3 Other hazards

No Information

**Results of PBT and vPvB assessment:**

No information

## SECTION 3: Composition/Information On Ingredients

### 3.2 Mixtures

**Hazardous Ingredients**

| CAS-No. | EINEC No. | Name According to EEC | % |
|---|---|---|---|
| 64742-95-6 | 265-199-0 | Solvent naphtha (petroleum), light arom. | 25-50 |
| 107-98-2 | 203-539-1 | 1-methoxypropan-2-ol | 25-50 |
| 111-76-2 | 203-905-0 | 2-butoxyethanol | 25-50 |

| | | | |
|---|---|---|---|
| 123-86-4 | 204-658-1 | n-butyl acetate | 2.5-10 |

| CAS-No. | REACH Reg No. | CLP Symbols | CLP Hazard Statements | M-Factors |
|---|---|---|---|---|
| 64742-95-6 | 01-2119455851-35 | GHS02-GHS07-GHS08-GHS09 | H226-304-335-336-411 | |
| 111-76-2 | 01-2119475108-36 | GHS07 | H302-312-315-319-332 | |
| 107-98-2 | 01-2119457435-35 | GHS02-GHS07 | H226-336 | |
| 123-86-4 | 01-2119485493-29 | GHS02-GHS07 | H226-336 | |

**Additional Information:** The text for CLP Hazard Statements shown above (if any) is given in Section 16.

## SECTION 4: First-aid Measures

### 4.1 Description of First Aid Measures

**GENERAL NOTES:** When symptoms persist or in all cases of doubt seek medical advice.
**AFTER INHALATION:** Move to fresh air. Consult a physician after significant exposure.
**AFTER SKIN CONTACT:** Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
**AFTER EYE CONTACT:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.
**AFTER INGESTION:** Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

**Self protection of the first aider:**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Irritating to eyes. Irritating to skin.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Fire-fighting Measures

### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

**FOR SAFETY REASONS NOT TO BE USED:** Alcohol, Alcohol based solutions, any other media not listed above.

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

No Information

### 5.3 Advice for firefighters

Flash back possible over considerable distance. In the event of fire, wear self-contained breathing apparatus. Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## SECTION 6: Accidental Release Measures

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

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

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

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

**FURTHER INSTRUCTIONS:** Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only explosion-proof equipment. Keep away from sources of ignition - No smoking.
Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

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

**CONDITIONS TO AVOID:** Direct sources of heat.
**STORAGE CONDITIONS:** Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

### 7.3 Specific end use(s)

No specific advice for end use available.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

**Ingredients with Occupational Exposure Limits**
**(EU)**

| Name | CAS-No. | LTEL ppm | STEL ppm | STEL mg/m3 | LTEL mg/m3 |
|---|---|---|---|---|---|
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | | | | |
| 1-methoxypropan-2-ol | 107-98-2 | 100 | 150 | 568 | 375 |
| 2-butoxyethanol | 111-76-2 | 20 | 50 | 246 | 98 |
| n-butyl acetate | 123-86-4 | | | | |

| Name | CAS-No. | OEL Note |
|---|---|---|
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | |
| 2-butoxyethanol | 111-76-2 | Sk |
| 1-methoxypropan-2-ol | 107-98-2 | Sk |
| n-butyl acetate | 123-86-4 | |

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

### 8.2 Exposure controls

**Personal Protection**
**RESPIRATORY PROTECTION:** Respirator with a vapour filter (EN 141). Respirator with a vapor filter. Recommended Filter type: A2, EN 136/140/145/143/149
**EYE PROTECTION:** Tightly fitting safety goggles. Safety glasses with side-shields conforming to EN166.
**HAND PROTECTION:** Rubber or plastic gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves complying with EN 374. Long sleeved clothing. Remove and wash contaminated clothing before re-use.
**OTHER PROTECTIVE EQUIPMENT:** No Information
**ENGINEERING CONTROLS:** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

**Chemical Name:**

Solvent naphtha (petroleum), light arom.

**EC No.:** 265-199-0

**CAS-No.:** 64742-95-6

## DNELs - Derived no effect level

| | Workers | | | | Consumers | | | |
|---|---|---|---|---|---|---|---|---|
| Route of Exposure | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral | Not required | | | | | | | 11 mg/kg |
| Inhalation | | | | | | | | 32 mg/m³ |
| Dermal | | | | | | | | 11 mg/kg |

## PNEC's - Predicted no effect concentration

| Environmental protection target | PNEC |
|---|---|
| Fresh water | |
| Fresh water sediments | |
| Marine water | |
| Marine sediments | |
| Food chain | |
| Microorganisms in sewage treatment | |
| soil (agricultural) | |
| Air | |

**Chemical Name:**

1-methoxypropan-2-ol

**EC No.:** 203-539-1

**CAS-No.:** 107-98-2

## DNELs - Derived no effect level

| | Workers | | | | Consumers | | | |
|---|---|---|---|---|---|---|---|---|
| Route of Exposure | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral | Not required | | | | | | 3.3 mg/kg | |
| Inhalation | 553.5 mg/m3 | 553.5 mg/m³ | | 369 mg/m3 | | | | 43.9 mg/m3 |
| Dermal | | | | 183 mg/kg bw/ day | | | | 18.1 mg/kg |

## PNEC's - Predicted no effect concentration

| Environmental protection target | PNEC |
|---|---|
| Fresh water | 10 mg/l |
| Fresh water sediments | 100 mg/l |
| Marine water | 1 mg/l |
| Marine sediments | 5.2 mg/kg |
| Food chain | |
| Microorganisms in sewage treatment | |
| soil (agricultural) | 5.49 mg/kg |
| Air | |

**Chemical Name:**

2-butoxyethanol

**EC No.:** 203-905-0

**CAS-No.:** 111-76-2

**DNELs - Derived no effect level**

| | Workers | | | | Consumers | | | |
|---|---|---|---|---|---|---|---|---|
| Route of Exposure | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral | Not required | | | | | 13.4 mg/kg | | 3.2 mg/kg |
| Inhalation | 50 ppm | 135 ppm | | 20 ppm | 123 mg/m3 | 426 mg/m3 | | 49 mg/m3 |
| Dermal | | 89 mg/kg | | 75 mg/kg | | 44.5 mg/kg | | 38 mg/kg |

**PNEC's - Predicted no effect concentration**

| Environmental protection target | PNEC |
|---|---|
| Fresh water | 8.8 mg/l |
| Fresh water sediments | 34.6 mg/kg |
| Marine water | 0.88 mg/l |
| Marine sediments | 3.46 mg/kg |
| Food chain | |
| Microorganisms in sewage treatment | 463 mg/l |
| soil (agricultural) | 2.8 mg/kg |
| Air | |

**Chemical Name:**

n-butyl acetate

**EC No.:** 204-658-1

**CAS-No.:** 123-86-4

**DNELs - Derived no effect level**

| | Workers | | | | Consumers | | | |
|---|---|---|---|---|---|---|---|---|
| Route of Exposure | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral | Not required | | | | | 2 mg/kg bw/ day - neurotoxicity- | | 2 mg/kg bw/day -neurotoxicity- |
| Inhalation | 300 mg/m³ (irritation (respiratory tract)) | 600 mg/m³ | 300 mg/m³ | 48 mg/m³ | 300 mg/m³ (irritation (respiratory tract)) | 300 mg/m³ (irritation (respiratory tract)) | 35.7 mg/m³ (irritation (respiratory tract)) | 12 mg/m³ |
| Dermal | | 11 mg/kg bw/ day - neurotoxicity- | | 7 mg/kg bw/day | No hazard identified | 6 mg/kg bw/ day - neurotoxicity | | 3.4 mg/kg bw/ day |

**PNEC's - Predicted no effect concentration**

| Environmental protection target | PNEC |
|---|---|
| Fresh water | 0.18 mg/l |
| Fresh water sediments | 0.981 mg/kg |
| Marine water | 0.018 mg/l |
| Marine sediments | 0.0981 mg/kg |
| Food chain | |
| Microorganisms in sewage treatment | 35.6 mg/L |
| soil (agricultural) | 0.0903 mg/kg |
| Air | |

## SECTION 9: Physical and Chemical Properties

**9.1 Information on basic physical and chemical properties**

**Appearance:** Clear

**Physical State** LIQUID

**Odor** SOLVENT

**Odor threshold** Not determined

| | |
|---|---|
| **pH** | N/A |
| **Melting point / freezing point (°C)** | Not determined |
| **Boiling point/range (°C)** | 120 - N.D. |
| **Flash Point, (°C)** | 35 |
| **Evaporation rate** | Not determined |
| **Flammability (solid, gas)** | Not determined |
| **Upper/lower flammability or explosive limits** | 0.7 Vol% - 20.0 Vol% |
| **Vapour Pressure** | 12 hPa |
| **Vapour density** | NOT DETERMINED |
| **Relative density** | Not determined |
| **Solubility in / Miscibility with water** | NOT DETERMINED |
| **Partition coefficient: n-octanol/water** | Not determined |
| **Auto-ignition temperature (°C)** | 224°C, Product is not selfigniting. |
| **Decomposition temperature (°C)** | Not determined |
| **Viscosity** | 1 mPas (20°C) |
| **Explosive properties** | Product is not explosive. However, formation of explosive air/vapour mixtures |
| **Oxidising properties** | Not determined |

**9.2 Other information**

**VOC Content g/l:** 900

**Grams of VOC per liter of coating product as applied per ISO 11890-1 and/or ISO 11890-2.**

**Specific Gravity (g/cm3)** 0.90

## SECTION 10: Stability and Reactivity

**10.1 Reactivity**
No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**
Stable under recommended storage conditions. Risk of ignition.

**10.3 Possibility of hazardous reactions**
Hazardous polymerisation does not occur.

**10.4 Conditions to avoid**
Direct sources of heat.

**10.5 Incompatible materials**
Strong oxidizing agents.

**10.6 Hazardous decomposition products**
Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

## SECTION 11: Toxicological Information

**11.1 Information on toxicological effects**

**Acute Toxicity:**

| | |
|---|---|
| **Oral LD50:** | No Information |
| **Inhalation LC50:** | No Information |
| **Irritation:** | No information available. |

**Corrosivity:** No information available.

**Sensitization:** No information available.

**Repeated dose toxicity:** No information available.

**Carcinogenicity:** No information available.

**Mutagenicity:** No information available.

**Toxicity for reproduction:** No information available.

**STOT-single exposure:** No information available.

**STOT-repeated exposure:** No information available.

**Aspiration hazard:** No information available.

**If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:**

| CAS-No. | Name According to EEC | Oral LD50 | Dermal LD50 | Vapor LC50 |
|---|---|---|---|---|
| 64742-95-6 | Solvent naphtha (petroleum), light arom. | 4700 mg/kg, oral, rat | >2000 mg/kg (dermal-rabbit) | 3670 ppm/8 hours, rat, inhalation |
| 111-76-2 | 2-butoxyethanol | 1746 mg/kg, rat, oral | 1950 mg/kg (dermal, pork) | 450 ppm/4h (rat(F), inhalation) |
| 107-98-2 | 1-methoxypropan-2-ol | 4016 mg/kg (oral-rat) | >2000 mg/kg (dermal-rat) | 10000 ppm/4hrs rat, inhalation |
| 123-86-4 | n-butyl acetate | 10760 mg/kg, rat, oral | 14112 mg/Kg (rabbit) | 23.4 mg/l/4/h (rat) |

**Additional Information:**
No Information

## SECTION 12: Ecological Information

**12.1 Toxicity:**

**EC50 48hr (Daphnia):** No information
**IC50 72hr (Algae):** No information
**LC50 96hr (fish):** No information

**12.2 Persistence and degradability:** No information

**12.3 Bioaccumulative potential:** No information

**12.4 Mobility in soil:** No information

**12.5 Results of PBT and vPvB assessment:** No information

**12.6 Other adverse effects:** No information

| CAS-No. | Name According to EEC | EC50 48hr | IC50 72hr | LC50 96hr |
|---|---|---|---|---|
| 64742-95-6 | Solvent naphtha (petroleum), light arom. | No information | No information | No information |
| 107-98-2 | 1-methoxypropan-2-ol | >21000 mg/L (Daphnia) | No information | 6812 mg/L (Leuciscus idus) |
| 111-76-2 | 2-butoxyethanol | 835 - 1550 mg/L | 1840 mg/L | 820 - 1490 mg/L |
| 123-86-4 | n-butyl acetate | No information | No information | 18 mg/L (Pimephales promelas) |

## SECTION 13: Disposal Considerations

13.1 **WASTE TREATMENT METHODS:** Do not burn, or use a cutting torch on, the empty drum. If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**European Waste Code:** 140603
**Packaging Waste Code:** 150110

## SECTION 14: Transport Information

| | | |
|---|---|---|
| 14.1 | **UN number** | UN1263 |
| 14.2 | **UN proper shipping name** | PAINT RELATED MATERIAL |
| | **Technical name** | Not applicable |
| 14.3 | **Transport hazard class(es)** | 3 |
| | **Subsidiary shipping hazard** | Not applicable |
| 14.4 | **Packing group** | III |
| 14.5 | **Environmental hazards** | Marine Pollutant: YES (Solvent naphtha (petroleum), light arom) |
| 14.6 | **Special precautions for user** | Not applicable |
| | **EmS-No.:** | F-E , S-E |
| 14.7 | **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code** | Not applicable |

## SECTION 15: Regulatory Information

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

**National Regulations:**

| | |
|---|---|
| **Denmark Product Registration Number:** | Not available |
| **Danish MAL Code:** | Not available |
| **Danish MAL Code - Mixture:** | Not available |
| **Sweden Product Registration Number:** | Not available |
| **Norway Product Registration Number:** | Not available |
| **Germany WGK Class:** | 2 |
| **Directive 2004/42/CE :** | N.A. |
| **Covered by Directive 2012/18/EC (Seveso III):** | Not applicable |
| **Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:** | Not applicable |

15.2 **Chemical Safety Assessment:**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: Other Information

**Text for CLP Hazard Statements shown in Section 3 describing each ingredient:**

| | |
|---|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |

| | |
|---|---|
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |

**Reasons for revision**

This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark;
European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;
European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP);
EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

Acronym & Abbreviation Key:

| | |
|---|---|
| CLP | Classification, Labeling & Packaging Regulation |
| EC | European Commission |
| EU | European Union |
| US | United States |
| CAS | Chemical Abstract Service |
| EINECS | European Inventory of Existing Chemical Substances |
| REACH | Registration, Evaluation, Authorization of Chemicals Regulation |
| GHS | Globally Harmonized System of Classification and Labeling of Chemicals |
| LTEL | Long term exposure limit |
| STEL | Short term exposure limit |
| OEL | Occupational exposure limit |
| ppm | Parts per million |
| mg/m3 | Milligrams per cubic meter |
| TLV | Threshold Limit Value |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| OSHA | Occupational Safety & Health Administration |
| PEL | Permissible Exposure Limits |
| VOC | Volatile organic compounds |
| g/l | Grams per liter |
| mg/kg | Milligrams per kilogram |
| N/A | Not applicable |
| LD50 | Lethal dose at 50% |
| LC50 | Lethal concentration at 50% |
| EC50 | Half maximal effective concentration |
| IC50 | Half maximal inhibitory concentration |
| PBT | Persistent bioaccumulative toxic chemical |
| vPvB | Very persistent and very bioaccumulative |
| EEC | European Economic Community |
| ADR | International Transport of Dangerous Goods by Road |
| RID | International Transport of Dangerous Goods by Rail |
| UN | United Nations |
| IMDG | International Maritime Dangerous Goods Code |
| IATA | International Air Transport Association |
| MARPOL | International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 |
| IBC | International Bulk Container |
| RTI | Respiratory Tract Irritation |
| NE | Narcotic Effects |

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.