

## Safety Data Sheet

According to U.S.A. Federal Hazcom 2012

### 1. Identification

#### 1.1. Product identifier

Product name **PRIMER NO 3**

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

Intended use **Primer.**

#### 1.3. Details of the supplier of the safety data sheet

Name **CHT UK BRIDGWATER LTD**  
Full address **Amber House Showground Road**  
District and Country **TA6 6AJ Bridgwater (Somerset)**  
**England**  
Tel. **+44(0)1278411400**  
Fax **+44(0)1278411444**

e-mail address of the competent person responsible for the Safety Data Sheet **info.uk@cht.com**Supplier: **CHT USA, Inc.**  
**805 Wolfe Avenue**  
**Cassopolis, MI 49031**

#### 1.4. Emergency telephone number

For urgent inquiries refer to **Transport: +1-703-527-3887 CHEMTREC (North America, 24 hours) (CCN 1014369)**  
**Toll Free: 1-800-424-9300 CHEMTREC (North America, 24 hours)**  
**+52 55 8526 4930 CHEMTREC (Central America, 24 hours)**  
**+55 11 4349 1359 CHEMTREC (South America, 24 hours)**

### 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

##### Classification and Hazard Statement

Flammable liquid, category 3

Acute toxicity, category 4

Aspiration hazard, category 1

Serious eye damage, category 1

Specific target organ toxicity - single exposure, category 3

Flammable liquid and vapour.

Harmful if inhaled.

May be fatal if swallowed and enters airways.

Causes serious eye damage.

May cause respiratory irritation.

##### Hazard pictograms:



Signal words:

Danger

##### Hazard statements:

**H226**

Flammable liquid and vapour.

**H332**

Harmful if inhaled.

**H304**

May be fatal if swallowed and enters airways.

**H318**

Causes serious eye damage.

**H335**

May cause respiratory irritation.

## 2. Hazards identification ... / >>

Precautionary statements:

Prevention:

- |             |  |
|-------------|--|
| <b>P210</b> | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| <b>P261</b> | Avoid breathing dust / fume / gas / mist / vapours / spray.                                    |
| <b>P242</b> | Use only non-sparking tools.   |
| <b>P280</b> | Wear protective gloves / eye protection / face protection.                                     |
| <b>P271</b> | Use only outdoors or in a well-ventilated area.  |
| <b>P240</b> | Ground / bond container and receiving equipment.   |
| <b>P243</b> | Take precautionary measures against static discharge.  |
| <b>P241</b> | Use explosion-proof electrical / ventilating / lighting / . . . / equipment.                   |

Response:

- |                       |  |
|-----------------------|--|
| <b>P331</b>           | Do NOT induce vomiting.  |
| <b>P305+P351+P338</b> | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| <b>P303+P361+P353</b> | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.                            |
| <b>P310</b>           | Immediately call a POISON CENTER / doctor / . . .  |
| <b>P304+P340</b>      | IF INHALED: remove person to fresh air and keep comfortable for breathing.   |
| <b>P370+P378</b>      | In case of fire: use . . . to extinguish.  |

Storage:

- |                  |  |
|------------------|--|
| <b>P403+P235</b> | Store in a well-ventilated place. Keep cool.                     |
| <b>P403+P233</b> | Store in a well-ventilated place. Keep container tightly closed. |
| <b>P405</b>      | Store locked up.   |

Disposal:

- |             |  |
|-------------|--|
| <b>P501</b> | Dispose of contents / container to . . . |
|-------------|--|

The mixture contains 75.28% of components of unknown acute inhalation toxicity.

### 2.2. Other hazards

Environmental classification as for Reg. (EC) 1272/2008 (CLP):

The product is classified as hazardous for environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

Classification and Hazard Statement

Hazardous to the aquatic environment, chronic toxicity, category 4	May cause long lasting harmful effects to aquatic life.
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Hazard statements:

- |             |   |
|-------------|---|
| <b>H413</b> | May cause long lasting harmful effects to aquatic life. |
|-------------|---|

Precautionary statements:

Prevention:

- |             |                                   |
|-------------|-----------------------------------|
| <b>P273</b> | Avoid release to the environment. |
|-------------|-----------------------------------|

Response:

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Storage:

--

Disposal:

- |             |  |
|-------------|--|
| <b>P501</b> | Dispose of contents / container to . . . |
|-------------|--|

Additional hazards

Repeated exposure may cause skin dryness or cracking.

## 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

Identification

x = Conc. %

Classification:

**ALKANES C9-12 ISODECANE AND ISOUNDECANE**

64 ≤ x < 66

**Flammable liquid, category 3 H226, Aspiration hazard, category 1 H304, Hazardous to the aquatic environment, chronic toxicity, category 4 H413**

EC	923-037-2
CAS	64742-48-9
REACH Reg.	01-2119471991-29

### 3. Composition/information on ingredients ... / >>

#### ETHYL SILICATE

INDEX 014-005-00-0 25 ≤ x < 27

Flammable liquid, category 3 H226, Acute toxicity, category 4 H332, Eye irritation, category 2 H319, Specific target organ toxicity - single exposure, category 3 H335

EC 201-083-8

CAS 78-10-4

REACH Reg. 01-2119496195-28

#### TETRA N BUTYL TITANATE

6 ≤ x < 7

Flammable liquid, category 3 H226, Serious eye damage, category 1 H318, Skin irritation, category 2 H315, Specific target organ toxicity - single exposure, category 3 H335, Specific target organ toxicity - single exposure, category 3 H336

EC 227-006-8

CAS 5593-70-4

REACH Reg. 01-2119967423-33

\* There is a batch to batch variation.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### 4. First-aid measures

#### 4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice.

Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

#### Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If symptoms occur, whether acute or delayed, consult a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

### 5. Fire-fighting measures

#### 5.1. Extinguishing media

##### SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

##### UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

**5. Fire-fighting measures** ... / >>**5.2. Special hazards arising from the substance or mixture****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

**5.3. Advice for firefighters****GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

**7. Handling and storage****7.1. Precautions for safe handling**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

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

Information not available

**8. Exposure controls/personal protection****8.1. Control parameters****Regulatory references:**

USA	NIOSH-REL	NIOSH publication No. 2005-149, 3th printing, 2007.
USA	OSHA-PEL	Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000.
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive

## 8. Exposure controls/personal protection ... / >>

TLV-ACGIH 91/322/EEC.  
ACGIH 2023

### ALKANES C9-12 ISODECANE AND ISOUNDECANE

#### Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
OEL	EU	1200		

### ETHYL SILICATE

#### Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
TLV-ACGIH	-	85	10	
OEL	EU	44	5	
OSHA	USA	850	100	
NIOSH	USA	85	10	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

### HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (OSHA 29 CFR 1910.138): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing.

### EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## 9. Physical and chemical properties

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

Properties	Value	Information
Appearance	liquid	
Colour	straw yellow	
Odour	characteristic of solvent	
Odour threshold	not available	
pH	not available	
Melting point / freezing point	not available	
Initial boiling point	not available	
Boiling range	not available	
Flash point	40 °C	(104 °F)
Evaporation rate	not available	
Flammability	not available	
Lower explosive limit	not available	

## 9. Physical and chemical properties ... / >>

Upper explosive limit	not available	
Vapour pressure	not available	
Vapour density	not available	
Relative density	0.80	
Solubility	immiscible with water	
Partition coefficient: n-octanol/water	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
Viscosity	4.93 cSt	Temperature: 23 °C
Explosive properties	not available	
Oxidising properties	not available	

### 9.2. Other information

Information not available

## 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

## 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.  
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

**11. Toxicological information ... / >>**

## ETHYL SILICATE

LC50 (Inhalation mists/powders): &gt; 10 mg/l/4h Rat

## ALKANES C9-12 ISODECANE AND ISOUNDECANE

LD50 (Oral): &gt; 5000 mg/kg

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

**12. Ecological information**

This product may damage the structure and/or the functions of the aquatic ecosystems in the long and/or delayed term.

**12.1. Toxicity**

## ETHYL SILICATE

EC50 - for Crustacea &gt; 193 mg/l/48h (Desmodesmus subspicatus green algae)

## ALKANES C9-12 ISODECANE AND ISOUNDECANE

LC50 - for Fish 1000 mg/l/96h Onchorhynchus mykiss (Rainbow trout)

**12.2. Persistence and degradability**

## ETHYL SILICATE

Solubility in water 1000 - 10000 mg/l  
Rapidly degradable**12.3. Bioaccumulative potential**

## 12. Ecological information ... / >>

ETHYL SILICATE

Partition coefficient: n-octanol/water 3.18

BCF 3.16

### 12.4. Mobility in soil

Information not available

### 12.5. Results of PBT and vPvB assessment

 On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

### 12.6. Other adverse effects

Information not available

## 13. Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## 14. Transport information

### 14.1. UN number

ADR / RID, IMDG, IATA: UN 1993

### 14.2. UN proper shipping name

ADR / RID: FLAMMABLE LIQUID, N.O.S. (ALKANES C9-12 ISODECANEAND ISOUNDECANE; ETHYL SILICATE)

IMDG: FLAMMABLE LIQUID, N.O.S. (ALKANES C9-12 ISODECANEAND ISOUNDECANE; ETHYL SILICATE)

IATA: FLAMMABLE LIQUID, N.O.S. (ALKANES C9-12 ISODECANEAND ISOUNDECANE; ETHYL SILICATE)

### 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



### 14.4. Packing group

ADR / RID, IMDG, IATA: III

### 14.5. Environmental hazards

ADR / RID: NO

IMDG: not marine pollutant

IATA: NO



**14. Transport information** ... / >>**14.6. Special precautions for user**

ADR / RID:	HIN - Kemler: 30 Special provision: 274, 601	Limited Quantities: 5 lt	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, S-E	Limited Quantities: 5 lt	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Passengers:	Maximum quantity: 60 L	Packaging instructions: 355
	Special provision:	A3	

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Information not relevant

**15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**U.S. Federal RegulationsTSCA:

All components of this product are listed on US Toxic Substances Control Act (TSCA) Inventory or are exempt from the listing / notification requirements.

Clean Air Act Section 112(b):

No component(s) listed.

Clean Air Act Section 602 Class I Substances:

No component(s) listed.

Clean Air Act Section 602 Class II Substances:

No component(s) listed.

Clean Water Act – Priority Pollutants:

No component(s) listed.

Clean Water Act – Toxic Pollutants:

No component(s) listed.

DEA List I Chemicals (Precursor Chemicals):

No component(s) listed.

DEA List II Chemicals (Essential Chemicals):

No component(s) listed.

EPA List of Lists:313 Category Code:

No component(s) listed.

EPCRA 302 EHS TPQ:

No component(s) listed.

EPCRA 304 EHS RQ:

No component(s) listed.

CERCLA RQ:

No component(s) listed.

EPCRA 313 TRI:

No component(s) listed.

RCRA Code:

No component(s) listed.

CAA 112 (r) RMP TQ:

No component(s) listed.

**15. Regulatory information ... / >>**State RegulationsMassachusetts:

78-10-4 ETHYL SILICATE

Minnesota:

78-10-4 ETHYL SILICATE

New Jersey:

78-10-4 ETHYL SILICATE

New York:

No component(s) listed.

Pennsylvania:

78-10-4 ETHYL SILICATE

California:

78-10-4 ETHYL SILICATE

Proposition 65:

This product does not contain any substances known to the State of California to cause cancer, reproductive harm or birth defects.

International RegulationsSubstances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

**16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>H226</b>	Flammable liquid and vapour.
<b>H332</b>	Harmful if inhaled.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H413</b>	May cause long lasting harmful effects to aquatic life.

## LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAA 112 @ RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112@)
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: Regulation (EC) 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%

**16. Other information ... / >>**

- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REACH: Regulation (EC) 1907/2006
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

**GENERAL BIBLIOGRAPHY:**

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh - Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Communication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachusetts 105 CMR Department of public health 670.000: "Right to Know"
- Minnesota Chapter 5206 Department Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**CALCULATION METHODS FOR CLASSIFICATION**

Product classification derives from criteria established by the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

**Changes to previous review:**

The following sections were modified:

02 / 03 / 04 / 08 / 09 / 11 / 14 / 16.