

# SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

## ETHYL IODIDE

Creation date 16th December 2022  
Revision date Version 1.0

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

- 1.1. Product identifier** ETHYL IODIDE  
Substance / mixture substance  
Chemical name Iodoethane  
CAS number 75-03-6  
EC (EINECS) number 200-833-1  
Registration number 01-2120766813-46-0000

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

**Substance's intended use**

Alkylating agent for the chemical and pharmaceutical industry.  
Intermediate use only.  
For industrial use.

ASG Product codes: 1030, 1035

Registration number: : 01-2120766813-46-0002

**Substance uses advised against**

The product should not be used in ways other than those referred in Section 1.

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

**Manufacturer**

Name or trade name Vinyl Kft.  
Address Adler Károly u. 19., Miskolc, 3524  
Hungary  
Phone +3646432633  
E-mail ehsq@vinyl.hu

**1.4. Emergency telephone number**

Toxicology Information Center (TOXIKOLÓGIAI INFORMÁCIÓS KÖZPONT), Address: 1097 Budapest, Nagyváradi tér 2., Hungary, tel. +36 80 20 11 99, (0-24 hours).

### SECTION 2: Hazards identification

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

**Classification of the substance in accordance with Regulation (EC) No 1272/2008**

The substance is classified as dangerous.

Acute Tox. 4, H302  
Skin Irrit. 2, H315  
Skin Sens. 1B, H317  
Eye Irrit. 2, H319  
Resp. Sens. 1, H334  
STOT SE 3, H335  
Muta. 2, H341

Full text of all classifications and hazard statements is given in the section 16.

**Most serious adverse physico-chemical effects**

No other known specific hazards.

**Most serious adverse effects on human health and the environment**

No other known specific hazards for human or environment.

**2.2. Label elements**

**Hazard pictogram**



**Signal word**

Danger

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### Dangerous substance

Iodoethane

(EC: 200-833-1; CAS: 75-03-6)

### Hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.

### Precautionary statements

P233	Keep container tightly closed.
P261	Avoid breathing mist/vapours/spray.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves.
P284	Wear respiratory protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342+P311	If experiencing respiratory symptoms: Call a doctor.

### 2.3. Other hazards

Substance does not meet the criteria for PBT or vPvB .

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### Chemical characterization

Synonym: Iodoethane

Molecular formula: CH<sub>3</sub>CH<sub>2</sub>I

Molecular weight: 155.97 g/mol

Purity: 99-100%

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 75-03-6 EC: 200-833-1 Registration number: 01-2120766813-46-0000	<b>substance main component</b> Iodoethane	100	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335	

Full text of all classifications and hazard statements is given in the section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information: Move affected person from the hazardous exposure only if you are wearing rescue gear. Do not become a casualty yourself. If person is unconscious notify a physician immediately and put into effect the emergency rescue procedure. The emergency response procedure and the location of the emergency equipment has to be provided.

#### If inhaled

Remove immediately to fresh air. If not breathing, give artificial respiration. Mouth-to-mouth respiration may be dangerous for the person providing first aid. Maintain airway and blood pressure. If breathing is difficult, give oxygen. Keep affected person calm, warm and at rest. Call a physician.

#### If on skin

Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. If irritation persists, get medical attention. Wash contaminated clothing before re-use.

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### If in eyes

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical assistance.

### If swallowed

Wash out mouth with water if the person is conscious and immediately seek medical attention. If medical attention is not immediately available get the affected person to vomit by having him touch the back of the throat with his finger or by giving him large amounts (0.5 L or more) of warm salt water (two tablespoons of salt per 0.5 L of water). Do not make an unconscious person vomit!

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

#### If inhaled

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

#### If on skin

Causes skin irritation. May cause an allergic skin reaction.

#### If in eyes

Causes serious eye irritation.

#### If swallowed

Harmful if swallowed.

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

No special treatment needed; treat symptomatically.

#### More information

Suspected of causing genetic defects. See also section 11.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Use dry chemical powder for small fire, and water spray, fog or foam for large fire.

#### Unsuitable extinguishing media

Do not use water jet.

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

Flammable in the presence of open flames and sparks. Emits toxic fumes under fire conditions. Combustion products: Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include carbon oxides, hydrogen iodide and iodine fumes.

### 5.3. Advice for firefighters

Wear full protective clothing and self-contained breathing apparatus operated in positive pressure demand with full-face mask.

Cool the fire-affected containers and equipment with water spray.

## SECTION 6: Accidental release measures

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

For non-emergency personnel:

Allow only well-trained experts wearing suitable protective clothing to abide in the field of the accident.

For emergency responders:

Small spills (from a small package or small leak from a large package): Shut off all sources of ignition. Evacuate the area and then take persons downwind. Large spills (from a large package or from many small packages): Evacuate the area and then take persons downwind.

Wear a self-contained breathing apparatus and full disposable body protection. Ventilate area and wash spill site after material is pickup. Personnel not wearing protective equipment should be restricted from areas of spills or leaks until clean-up has been completed.

### 6.2. Environmental precautions

Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

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

Cover with dry lime or soda ash, pick up, keep in a closed container and hold for waste disposal. Keep away from sewer or water sources.

### 6.4. Reference to other sections

For further and detailed information see section 8 and 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Observe conventional hygiene precautions.

Any non-impervious clothing that becomes contaminated with ethyl iodide should be discarded or washed until all traces of ethyl iodide are removed. Do not get in eyes, on skin, on clothing. Do not breathe vapour or mist. Wash thoroughly after handling. Do not eat, drink, or smoke in work area. Avoid prolonged or repeated exposure. If you work with ethyl iodide, you should wash your hands with soap or mild detergent and water prior to eating, smoking or using the toilet facilities.

Technical measures:

Wear eye, skin and respiratory protection when handling. Wear fresh clothing daily. Use only with adequate ventilation.

Precautions against fire and explosion:

No special measures required.

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

Technical measures and storage condition:

Keep container tightly closed. Must be stored in tightly sealed containers away from light, moisture and strong oxidizers.

Keep container in a cool and well-ventilated area. Do not store in open, unlabelled or mislabelled containers.

Incompatible materials: see section 10.5

Packaging material: no special prescriptions.

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

Alkylating agent for the chemical and pharmaceutical industry.

Intermediate use only.

For industrial use.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The substance is not regulated with exposure limit value.

DNEL values

Consumer/ Worker - Local - Oral exposure - Short term (acute) - no data available

Consumer/ Worker - Local - Oral exposure - Long term (chronic) - no data available

Consumer/ Worker - Local - Dermal exposure - Short term (acute) - no data available

Consumer/ Worker - Local - Dermal exposure - Long term (chronic) - no data available

Consumer/ Worker - Local - Inhalative exposure - Short term (acute) - no data available

Consumer/ Worker - Local - Inhalative - Long term (chronic) - no data available

Consumer/ Worker - Systemic - Oral exposure - Short term (acute) - no data available

Consumer/ Worker - Systemic - Oral exposure - Long term (chronic) - no data available

Consumer/ Worker - Systemic - Dermal exposure - Short term (acute) - no data available

Consumer/ Worker - Systemic - Dermal exposure - Long term (chronic) - no data available

Consumer/ Worker - Systemic - Inhalative exposure - Short term (acute) - no data available

Consumer/ Worker - Systemic - Inhalative - Long term (chronic) - no data available

PNEC values

Compartment - Value - Note(s)

Freshwater - no data - no notes

Marine water - no data - no notes

Freshwater sediment - no data - no notes

Marine water sediment - no data - no notes

Sewage Treatment Plant (STP) - no data - no notes

Intermittent release - no data - no notes

Secondary poisoning - no data - no notes

Soil - no data - no notes

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### 8.2. Exposure controls

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations as low as possible. Ensure that eye wash stations and safety showers are proximal to the work-station location.

#### Eye/face protection

Use appropriate protective glasses when handling the liquid (EN 166).

#### Skin protection

Use appropriate impervious protective clothing to prevent repeated or prolonged skin contact. Replace or repair impervious clothing that has developed leaks. Wash thoroughly after handling.

Hand protection: avoid skin contact. Use appropriate impervious protective gloves to prevent repeated or prolonged skin contact (EN 374).

#### Respiratory protection

Use appropriate respiratory protective equipment for organic vapours with full or half-face pieces (with chemical goggles). The respirator use limitations must be observed. Respiratory protection programs must meet the requirements of the relevant national standards. For high concentrations, confined areas, and oxygen deficient atmospheres wear air-supplied mask or self-contained breathing apparatus. Use only in a chemical fume hood. Respirators must not be loosened or removed in work situations where their use is required. The respirator must fit your face and head tightly. If you can smell ethyl iodide, go to fresh air immediately because your respiratory protection is not working properly. If you have trouble breathing while wearing a respiratory, tell your employer. Respiratory protection for Ethyl Iodide at 50 ppm or less: Any supplied-air respirator or any self-contained breathing apparatus. At 250 ppm or less: Any supplied-air respirator with a full-face piece, helmet, or hood or any self-contained breathing apparatus with a full-face piece. At 800 ppm or less: A type C supplied-air respirator operated in pressure-demand or other positive pressure or continuous-flow mode. At greater than 800 ppm or entry and escape from unknown concentrations: Self-contained breathing apparatus operated in pressure demand or other positive pressure mode or a combination respirator which includes a type C supplied-air respirator with a full-face piece operated in pressure-demand or other positive pressure or continuous-flow mode and an auxiliary self-contained breathing apparatus operated in pressure demand or other positive pressure mode. In case of emission: Any gas mask providing protection against organic vapours, or any escape self-contained breathing apparatus.

#### Thermal hazard

No thermal hazards known.

#### Environmental exposure controls

No specific prescription.

#### More information

The requirements detailed in section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.

## SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	colourless
Odour	ethereal odour
Melting point/freezing point	-108 °C
Boiling point or initial boiling point and boiling range	72,3 °C
Flammability	not applicable, liquid
Lower and upper explosion limit	data not available
Flash point	61 °C
Auto-ignition temperature	not applicable
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	in water: 0.4 g/100 ml
Partition coefficient n-octanol/water (log value)	log Pow = 2,0
Vapour pressure	100 Hgmm at 25 °C

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Density and/or relative density

Density 1,930 g/cm<sup>3</sup>

Relative vapour density 5,38 (air=1)

Particle characteristics data not available

Data not available means the manufacturer did not carry out any tests on some parameters for the product or the results of the tests are not available at the time of publication of the data sheet.

### 9.2. Other information

not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No reactivity known.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Sensitive to moisture and light. Will discolour on exposure to light. May decompose on exposure to oxygen, air or water.

### 10.5. Incompatible materials

Strong oxidizing agents and strong bases.

### 10.6. Hazardous decomposition products

May decompose to carbon monoxide, carbon dioxide, iodine and hydrogen iodide.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

not available

#### Acute toxicity

Harmful if swallowed

High concentrations are extremely destructive to tissues of the mucous membranes. Acute exposures may produce nausea, vomiting, and diarrhoea.

LD50 (oral, rat): 330 mg/kg bw

LD50 (oral, guinea pig): 322 mg/kg bw

LD50 (oral, rat): 330 mg/kg bw

LD50 (oral, mouse): 560 mg/kg bw

LD50 (intraperitoneal, rat): 330 mg/kg bw

LD50 (intraperitoneal, guinea pig): 322 mg/kg bw

LD50 (intraperitoneal, mouse): 560 mg/kg bw

LD50 (subcutaneous, mouse): 1000 mg/kg bw

LC50 (inhalation, mouse): 65 g/m<sup>3</sup>/30 min

#### Skin corrosion/irritation

Causes skin irritation. High concentrations are extremely destructive to the skin tissues. Acute exposure to the liquid may produce erythema and blister the skin.

#### Serious eye damage/irritation

Causes serious eye irritation. Causes redness and can be painful. High concentrations are extremely destructive to the tissues of the mucous membranes of the eye.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May be fatal if swallowed.

May be fatal if inhaled. Acute exposures may produce lung irritation leading to congestion and pulmonary oedema. Causes severe irritation. High concentrations are extremely destructive to the tissues of the mucous membranes and upper respiratory tract. May cause burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

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### Germ cell mutagenicity

Suspected of causing genetic defects.

Mutagenicity:

DNA damage (E. coli): 1 µmol/l

Mutation in microorganisms (E. coli): 20 µmol/l

### Carcinogenicity

Based on available data, the classification criteria are not met.

### Reproductive toxicity

Based on available data, the classification criteria are not met.

### Toxicity for specific target organ - single exposure

May cause respiratory irritation.

### Toxicity for specific target organ - repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### 11.2. Information on other hazards

Chronic Effects:

May cause reproductive disorders. Target organs are the central nervous system (CNS), liver, kidneys, thyroid and lungs.

Medical conditions aggravated by exposure:

Pre-existing respiratory tract diseases.

Summaries of the information derived from the test conducted: No data available.

Information on likely routes of exposure: Ingestion, inhalation, skin contact, eye contact.

Symptoms related to the physical, chemical and toxicological characteristics:

Signs and symptoms of overexposure: Confusion, nausea, dizziness, drowsiness, headache, narcotic effect, pulmonary oedema.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

Based on available data, the classification criteria are not met.

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

log Pow = 2.0

This suggests that the potential of bioconcentration in aquatic organisms is low.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

### 12.6. Endocrine disrupting properties

No data available.

### 12.7. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

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### 13.1. Waste treatment methods

Disposal according to the local regulations.

Information regarding the disposal of the product:

Waste classification: Hazardous. Dispose of in accordance with all local, regional and national regulations. Contact a licensed professional waste disposal service to dispose of this material. Mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

List of Waste Code:

No waste disposal key according to the List of Waste Code (LoW code) can be determined for this product, as only the purpose of application defined by the user enables an allocation. The LoW code number has to be determined after a discussion with a waste disposal specialist.

Information regarding the disposal of the packaging:

Dispose of in accordance with applicable regulations.

Physical/chemical properties that may affect waste treatment options shall be specified:

No data available.

Sewage disposal:

No data available.

Special precautions for any recommended waste treatment:

No data available.

## SECTION 14: Transport information

### 14.1. UN number or ID number

UN 2810

### 14.2. UN proper shipping name

TOXIC LIQUID, ORGANIC, N.O.S.

### 14.3. Transport hazard class(es)

6.1 Toxic substances

### 14.4. Packing group

III - substances presenting low danger

### 14.5. Environmental hazards

No relevant information available.

### 14.6. Special precautions for user

No relevant information available.

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable,

#### Additional information

Hazard identification No.

60

UN number

2810

Classification code

T1

Safety signs

6.1



#### Air transport - ICAO/IATA

Packaging instructions passenger

655

Cargo packaging instructions

663

#### Marine transport - IMDG

EmS (emergency plan)

F-A, S-A

MFAG

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### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Ordinance on protection against hazardous substances (Hazardous Substances Ordinance - GefStoffV). TRGS 900. Protection of Young Persons (Employment) Act (Child Labor Law - JArbSchG). Act on protection against dangerous substances and preparations (Chemicals Act - ChemG). Act on the implementation of occupational safety and health measures to improve workplace safety and health. Ordinance to protect the climate from changes caused by the input of certain fluorinated greenhouse gases (Chemicals Climate Protection Ordinance - ChemKlimaschutzV). Technical Instructions on Air Quality Control. Ordinance on facilities for handling substances that are hazardous to water (AwsV) of 18 April 2017. Prevention Act. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.

#### Guidelines for safe handling used in the safety data sheet

P261	Avoid breathing mist/vapours/spray.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves.
P342+P311	If experiencing respiratory symptoms: Call a doctor.
P233	Keep container tightly closed.
P271	Use only outdoors or in a well-ventilated area.
P284	Wear respiratory protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Other important information about human health protection

not available

#### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
AGW	Occupational Exposure Limits
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EINECS	European Inventory of Existing Commercial Chemical Substances
EK	Identification code for each substance listed in EINECS
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients

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ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
log Kow	Octanol-water partition coefficient
MAK	Maximum workplace concentration
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Eye Irrit.	Eye irritation
Muta.	Germ cell mutagenicity
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure

### Training guidelines

not available

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

Reason for review: Following legislative changes.

Sections affected: 1-16.

### Statement

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.

The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.