

Material Safety Data Sheet

Prepared in accordance with Annex II of REACH Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and regulation (EC) 453/2010 with later changes

Vi-Pro® EASY TO CLEAN

Version: 1.0/EN

Date: 27.08.2016

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product name : Vi-Pro Easy To Clean – Universal Cleaner for glass and non porous substrates
Registration number REACH: Not applicable (mixture)
Product type REACH: Mixture (Organic)

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

The product is used as a sealant and/or adhesive (polyurethane) in building industry. No uses advised against known.

1.3 Details of the supplier of the safety data sheet:

Name	Proventuss Polska Sp. z o.o.
Address	Flisa 4, 02-247 Warszawa
Phone of person responsible	+48 22 122 85 49
e-mail of person responsible	reach@vi-pro.eu

1.4 Emergency telephone number:

Centrum Toksykologii Szpitala Praskiego tel. 22 555 12 68, numer alarmowy 112

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2
Eye irritation, Category 2
Specific target organ toxicity - single exposure Category 3:

H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

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2.2 Label elements

2.2.1 Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

Signal word Danger

Precautionary statements:

Prevention:

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

P233 Keep container tightly closed.

P261 Avoid breathing spray.

P271 Use only outdoors or in a well-ventilated

P280 Wear protective gloves/ protective clothing

Response:

P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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Supplemental Hazard Statements:

EUH066 Repeated exposure may cause skin dryness or cracking.

Hazardous components which must be listed on the label:

Propan-2-ol

2.3 Other hazards:

Static-accumulating flammable liquid.

Vapours may form explosive mixture with air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: **Mixtures**

Chemical nature : **Organic solvent**

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Acetone	67-64-1 200-662-2 01-2119471330- 49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	25 - 35
Propan-2-ol	67-63-0 200-661-7 01-2119457558- 25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	60 - 80

4. FIRST - AID MEASURES

4.1 Description of first aid measures

General advice:

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In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

Protection of first-aiders:

First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

If inhaled:

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

In case of skin contact:

In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.

In case of eye contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.

If swallowed:

If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Risks:

Causes serious eye irritation.

May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:

Treat symptomatically and supportively.

5. FIRE - FIGHTING MEASURES

5.1 Extinguishing media

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Suitable extinguishing media: Water spray. Alcohol-resistant foam. Carbon dioxide (CO₂). Dry chemical
Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting:

Do not use a solid water stream as it may scatter and spread fire.

Flash back possible over considerable distance.

Vapours may form explosive mixtures with air.

Exposure to combustion products may be a hazard to health.

Hazardous combustion product :
Carbon oxides.

5.3 Advice for firefighters:

Special protective equipment for fire-fighters:

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Specific extinguishing methods:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do so.

Evacuate area.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Personal precautions:

Remove all sources of ignition.

Ventilate the area. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

6.2 Environmental precautions

Environmental precautions:

Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil barriers).

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Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up:

Non-sparking tools should be used.

Soak up with inert absorbent material.

Suppress (knock down) gases/vapours/mists with a water spray jet.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections:

See sections: 7, 8, 11, 12 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Technical measures:

Ensure all equipment is electrically grounded before beginning transfer operations.

This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations.

Restrict flow velocity in order to reduce the accumulation of static electricity.

Local/General ventilation:

Use with local exhaust ventilation.

Use only in an area equipped with explosion proof exhaust ventilation

Advise on safe handling:

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Do not get on skin or clothing. Do not breathe vapours or spray mist. Do not swallow. Do not get in eyes.

Handle in accordance with good industrial hygiene and safety practice.

Non-sparking tools should be used.

Keep container tightly closed.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures:

Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage:

- Keep in properly labeled containers. Store locked up. Keep areas and containers tightly closed. Keep in a cool, well-ventilated place
- Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

Advice on common storage:

- Do not store with the following product types: strong oxidizing agents; organic peroxides; flammable solids; pyrophoric liquids; pyrophoric solids; substances and mixtures, which in contact with water, emit flammable gases; explosives.

7.3 Specific end use(s)

These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

8 . EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Propan-2-ol	67-63-0	TWA	400 ppm 999 mg/m ³	GB EH40
		STEL	500 ppm 1,250 mg/m ³	GB EH40
Acetone	67-64-1	TWA	500 ppm 1,210 mg/m ³	2000/39/EC
Further information	Indicative			
		TWA	500 ppm 1,210 mg/m ³	GB EH40
		STEL	1,500 ppm 3,620 mg/m ³	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Acetone	Workers	Inhalation	Long-term systemic effects	1210 mg/m ³
	Workers	Inhalation	Acute local effects	2420 mg/m ³
	Workers	Skin contact	Long-term systemic effects	186 mg/kg
	Consumers	Inhalation	Long-term systemic effects	200 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	62 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	62 mg/kg bw/day
Propan-2-ol	Workers	Inhalation	Long-term systemic effects	500 mg/m ³
	Workers	Skin contact	Long-term systemic effects	888 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	89 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	319 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	26 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value

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Acetone	Fresh water	10.6 mg/l
	Marine water	1.06 mg/l
	Intermittent use/release	21 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	30.4 mg/kg
	Marine sediment	3.04 mg/kg
	Soil	29.5 mg/kg
	Propan-2-ol	Fresh water
	Marine water	140.9 mg/l
	Intermittent use/release	140.9 mg/l
	Sewage treatment plant	2251 mg/l
	Fresh water sediment	552 mg/kg
	Marine sediment	552 mg/kg
	Soil	28 mg/kg
	Oral	160 mg/kg

8.2 Exposure controls

General requirements:

Minimize workplace exposure concentrations.

Use only in an area equipped with explosion proof exhaust ventilation.

Use with local exhaust ventilation

Personal protective equipment:

Eye protection: Wear the following personal protective equipment: Safety goggles

Hand protection Material: Antistatic gloves, Impervious gloves, Flame retardant gloves

Remarks: Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective

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equipment: Flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type: Self-contained breathing apparatus.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	solvent-like
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point	75C
Flash point	-18 °C Method: Tag closed cup
Evaporation rate	No data available
Flammability (solid, gas)	n.a.
Vapour pressure	No data available
Relative vapour density	No data available
Relative density	0.79
Solubility(ies)	
Water solubility	fully miscible
Partition coefficient: n- octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	2 mPa.s
Explosive properties	no
Oxidizing properties	no

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9.2 Other information

no

10 . STABILITY AND REACTIVITY

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions and temperatures.

10.3 Possibility of hazardous reactions

Highly flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Avoid oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure:

Inhalation, Skin contact, Ingestion, Eye contact

Acute toxicity:

Not classified based on available information.

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Components:

	Propan-2-ol:
Acute oral toxicity	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	LC50 (Rat): 72.6 mg/l, Exposure time: 4 h, vapour
Acute dermal toxicity	LD50 (Rat): > 5,000 mg/kg

	Acetone:
Acute oral toxicity	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	LC50 (Rat): >40 mg/l, Exposure time: 4 h, vapour
Acute dermal toxicity	LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation:

Repeated exposure may cause skin dryness or cracking!

Propan-2-ol:

species: Rabbit

Result: No skin irritation

Acetone:

Assessment: Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Propan-2-ol:

Species: Rat

Application Route: inhalation (vapour) Exposure time: 104 weeks Method: OECD Test Guideline 451

Result: negative

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Acetone:

Species: Mouse Application Route: Skin contact Exposure time: 1 Years Result: negative

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Propan-2-ol:

Assessment: May cause drowsiness or dizziness.

Acetone:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Propan-2-ol:

Species: Rat NOAEL: 5000 ppm

Application Route: inhalation (vapour) Exposure time: 104 Weeks Method: OECD Test Guideline 413

Acetone:

Species: Rat LOAEL: 1,700 mg/kg Application Route: Ingestion Exposure time: 90 Days

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Components:

Propan-2-ol:

Toxicity to fish:

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LC50 (Pimephales promelas (fathead minnow)): 10000 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): > 10000 mg/l Exposure time: 24 h

Toxicity to bacteria:

EC50 (Pseudomonas putida): > 1,050 mg/l Exposure time: 16h

Acetone:

Toxicity to fish:

LC50 (Pimephales promelas (fathead minnow)): 6,210 - 8,120 mg/l, Exposure time: 96 h, OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia pulex (Water flea)): 8,800 mg/l, 48h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):

NOEC: 1106 - 2212 mg/l, Exposure time: 28 d, Species: Daphnia magna (Water flea)

12.2. Persistence and degradability

Both components are rapidly degradable.

12.3. Bioaccumulative potential

Components:

Propan-2-ol:

Partition coefficient: n- octanol/water log Pow: 0.05

Acetone:

Partition coefficient: n- octanol/water log Pow: 0.24

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Not relevant

12.6. Other adverse effects

No data available

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13. DISPOSAL CONSIDERATIONS

Обща информация

Отпадъкът не се класифицира като опасен. Предавайте на лицензирана фирма за отпадъци съгласно местните норми и правила.

13.1. Waste treatment methods

For the product:

Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

For the packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum. If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	UN 1993
UN No. (IMDG)	UN 1993
UN No. (IATA)	UN 1993

14.2. UN proper shipping name

UN (ADR/RID/ADN)	FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, Acetone)
UN (IMDG)	FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, Acetone)
UN (IATA)	FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, Acetone)

14.3. Transport hazard class(es)

ADR/RID/AND	3
IMDG	3
IATA	3

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14.4. Packing group

ADN

Packing group	II
Classification Code	F1
Hazard Identification Number	33
Labels	3

ADR

Packing group	II
Classification Code	F1
Hazard Identification Number	33
Labels	3
Tunnel restriction code	(D/E)

IATA (Cargo)

Packing instruction (cargo aircraft)	364
Packing instruction (LQ)	Y341
Packing group	II
Labels	Flammable Liquids

IATA (Passenger)

Packing instruction (cargo aircraft)	353
Packing instruction (LQ)	Y341
Packing group	II
Labels	Flammable Liquids

14.5. 5 Environmental hazards

ADN

Environmentally hazardous - no

ADR

Environmentally hazardous - no

RID

Environmentally hazardous - no

IMDG

Environmentally hazardous - no

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14.6. Special precautions for user

Not applicable

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

n.a. for the product as supplied

15. REGULATORY INFORMATION

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS Quantity 1 = 5000 t, Quantity 2 = 50000 t

The components of this product are reported in the following inventories:

REACH: For purchases from IPS all ingredients are currently pre/registered or exempt under REACH.

IECSC: All ingredients listed or exempt.

ENCS/ISHL: All components are listed on ENCS/ISHL or exempted from inventory listing.

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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16. OTHER INFORMATION

Full text of H-Statements:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Full text of other abbreviations:

Eye Irrit. Eye irritation
Flam. Liq. Flammable liquids
STOT SE Specific target organ toxicity - single exposure
2000/39/EC Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.
GB EH40 UK. EH40 WEL - Workplace Exposure Limits
AND European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS -

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Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this MSDS and may not be valid when the MSDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the MSDS material in the user's end product, if applicable.