

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Trade name ADDIBOND 829

1.2 Relevant identified uses of the substance or mixture and uses advised against**Uses of the Substance/Mixture**

- Treating the surfaces of metals

Remarks

- For professional and industrial installation and use only.

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

Solvay Solutions UK Limited
P.O.Box 80 Trinity Street
Oldbury West Midlands B69 4LN
England
Telephone: +44 (0)121 552 3333
Fax: +44 (0)121 541 3235

E-mail address

manager.sds@solvay.com

1.4 Emergency telephone number

+44(0)1235 239 671 [CareChem 24]

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****GHS Classification (UN)**

Corrosive to metals, Category 1
Serious eye damage/eye irritation, Category 1
Long-term (chronic) aquatic hazard, Category 2

H290: May be corrosive to metals.
H318: Causes serious eye damage.
H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

GHS label elements (UN)**Hazardous products which must be listed on the label**

- CAS-No. 27936-88-5 Vinylphosphonic acid/acrylic acid copolymer

Pictogram**Signal word**

- Danger

Hazard statements

- H290 May be corrosive to metals.
- H318 Causes serious eye damage.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statementsGeneral

- None

Prevention

- P234 Keep only in original packaging.
- P273 Avoid release to the environment.
- P280 Wear eye protection/ face protection.

Response

- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- P390 Absorb spillage to prevent material damage.
- P391 Collect spillage.

Storage

- None

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards which do not result in classification

None known.

SECTION 3: Composition/information on ingredients**3.1 Substance**

- Not applicable, this product is a mixture.

3.2 Mixture

- Chemical nature Aqueous solution
Copolymer

Information on Components and Impurities

Chemical name	CAS-No.	GHS Classification	Concentration [%]
Vinylphosphonic acid/acrylic acid copolymer	CAS-No. : 27936-88-5	Corrosive to metals, Category 1 ; H290 Serious eye damage, Category 1 ; H318 Long-term (chronic) aquatic hazard, Category 2 ; H411	>= 30 - < 40

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acrylic acid	CAS-No. : 79-10-7	Flammable liquids, Category 3 ; H226 Acute toxicity, Category 4 ; H312 Acute toxicity, Category 4 ; H302 Acute toxicity, Category 4 ; H332 Skin corrosion, Sub-category 1A ; H314 Serious eye damage, Category 1 ; H318 Short-term (acute) aquatic hazard, Category 1 ; H400 Long-term (chronic) aquatic hazard, Category 2 ; H411 M-Factor(Acute) : 1 Specific concentration limits: C: ≥ 1 %, Specific target organ toxicity - single exposure, Category 3; H335	≥ 0.1 - < 0.25
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For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

- First aider needs to protect himself.
- Show this safety data sheet to the doctor in attendance.
- Place affected clothing in a sealed bag for subsequent decontamination.
- When symptoms persist or in all cases of doubt seek medical advice.

In case of inhalation

- Move to fresh air.
- Keep at rest.
- Consult a physician if necessary.

In case of skin contact

- Take off contaminated clothing and shoes immediately.
- Wash off immediately with soap and plenty of water.
- Use a mild soap if available.
- If skin irritation occurs, seek medical advice/attention.

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids.
- Take victim immediately to hospital.
- Continue rinsing eyes during transport to hospital.

In case of ingestion

- Do not induce vomiting without medical advice.
- Rinse mouth with water.
- Do not give anything to drink.
- Keep at rest.
- Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

- no data available

4.3 Indication of any immediate medical attention and special treatment needed

- no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

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Suitable extinguishing media

- Extinguishing media - small fires
- Water spray
- Multi-purpose powders
- Carbon dioxide (CO₂)
- Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)
- Extinguishing media - large fires
- Water spray
- Multi-purpose powders
- Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)

Unsuitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture**Specific hazards during firefighting**

- In the presence of water, forms corrosive solutions.
- The pressure in sealed containers can increase under the influence of heat.
- Aqueous liquid. Does not present any particular risk in the event of a fire.
- Hazardous decomposition products formed under fire conditions.
- (following evaporation of water)
- High concentrations of toxic or harmful products may remain in the residual liquid once the fire has been extinguished.

Hazardous combustion products:

- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
- Oxides of phosphorus

5.3 Advice for firefighters**Special protective equipment for firefighters**

- Wear full protective clothing and self-contained breathing apparatus.
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Specific fire fighting methods

- Stay upwind.
- Fight fire with normal precautions from a reasonable distance.
- Do not use a solid water stream as it may scatter and spread fire.
- Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information

- Evacuate personnel to safe areas.
- Intervention only by capable personnel who are trained and aware of the hazards of the product.
- Never approach containers which have been exposed to fire, without cooling them sufficiently.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

- Avoid inhalation, ingestion and contact with skin and eyes.
- Wear chemical resistant personal protective equipment
- Wear suitable gloves.
- Wear suitable protective clothing.
- Wear as appropriate:
 - Face-shield
 - Tightly fitting safety goggles
- In the case of dust or aerosol formation use respirator with an approved filter.
- In the case of vapour formation use a respirator with an approved filter.
- Stop leak if safe to do so.
- If spillage occurs on the public highway, indicate the danger and notify the authorities (police, fire brigade).
- For further information refer to section 8 "Exposure controls/personal protection".

6.2 Environmental precautions

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by bunding.
- The product should not be allowed to enter drains, water courses or the soil.
- Local authorities should be advised if significant spillages cannot be contained.
- If the product contaminates rivers and lakes or drains inform respective authorities.
- If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal.

6.3 Methods and materials for containment and cleaning up

- Stop leak if safe to do so.
- Dam up with sand or inert earth (do not use combustible materials).
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
- Shovel or sweep up.
- Keep in suitable, closed containers for disposal.
- Never return spills in original containers for re-use.
- Wash non-recoverable remainder with large amounts of water.
- Clean contaminated surface thoroughly.
- Recover the cleaning water for subsequent disposal.
- Decontaminate tools, equipment and personal protective equipment in a segregated area.
- Dispose of as hazardous waste in compliance with local and national regulations.

Additional advice

- Material can create slippery conditions.

6.4 Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Handle in accordance with good industrial hygiene and safety practice.
- Wear personal protective equipment.
- Wear suitable protective clothing.
- Avoid inhalation, ingestion and contact with skin and eyes.
- Avoid splashes.
- Avoid formation of aerosol.
- For personal protection see section 8.

Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Use clean, well-maintained personal protection equipment.
- Regular cleaning of equipment, work area and clothing.
- When using do not eat, drink or smoke.
- Smoking, eating and drinking should be prohibited in the application area.
- Wash hands before breaks and immediately after handling the product.
- Contaminated work clothing should not be allowed out of the workplace.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Keep in a bunded area.
- The floor of the storage area should be impermeable and designed to form a water-tight basin.
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Keep away from open flames, hot surfaces and sources of ignition.
- Keep away from incompatible materials to be indicated by the manufacturer
- Do not freeze.
- Keep away from: Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").

Packaging material**Suitable material**

- Plastic materials.

Remarks

- Store in original container.

Requirements for storage rooms and vessels

Recommended storage temperature: < 50 °C

- Do not freeze.

7.3 Specific end use(s)

- no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with other occupational exposure limits

Components	Value type	Value	Basis
Acrylic acid	TWA	2 ppm	USA. ACGIH Threshold Limit Values (TLV)
Danger of cutaneous absorption			

8.2 Exposure controls

Control measures

Engineering measures

- Effective exhaust ventilation system
- Ensure adequate ventilation.
- Extract at emission point.
- Ensure that extracted air cannot be returned to the workplace through the ventilation system.
- Avoid splashes.
- Avoid formation of aerosol.

Individual protection measures

Respiratory protection

- Recommended Filter type: Combined particulates and acidic gas/vapour type
- This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
- Use a respirator with an approved filter if a risk assessment indicates this is necessary.

Hand protection

- Where there is a risk of contact with hands, use appropriate gloves
- Gloves must be inspected prior to use.
- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Use only personal protective equipment that conforms to international/ national standards (KOSHA, etc.).

Suitable material

- Neoprene
- Nitrile rubber
- butyl-rubber
- PVC

Eye protection

- Tightly fitting safety goggles
- Face-shield

Skin and body protection

- Full protective suit
- Footwear protecting against chemicals
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Use clean, well-maintained personal protection equipment.
- Regular cleaning of equipment, work area and clothing.
- When using do not eat, drink or smoke.
- Smoking, eating and drinking should be prohibited in the application area.
- Wash hands before breaks and immediately after handling the product.
- Contaminated work clothing should not be allowed out of the workplace.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.

Protective measures

- Emergency equipment immediately accessible, with instructions for use.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.
- The protective equipment must be selected in accordance with current local regulations and in cooperation with the supplier of the protective equipment.

Environmental exposure controls

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by bunding.
- The product should not be allowed to enter drains, water courses or the soil.
- Local authorities should be advised if significant spillages cannot be contained.
- If the product contaminates rivers and lakes or drains inform respective authorities.
- If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

<u>Appearance</u>	<u>Form:</u>	Aqueous solution
	<u>Physical state:</u>	liquid (25 °C)
	<u>Colour:</u>	amber
<u>Odour</u>		None
<u>Odour Threshold</u>		No data available
<u>pH</u>		< 1.0 (undiluted)
<u>Melting point/freezing point</u>		No data available
<u>Initial boiling point and boiling range</u>		No data available
<u>Flash point</u>		Not applicable aqueous liquid for which the organic components have flash point > 100 °C
<u>Evaporation rate (Butylacetate = 1)</u>		No data available

<u>Flammability (solid, gas)</u>	Not applicable
<u>Flammability/Explosive limit</u>	<u>Lower flammability/explosion limit:</u> Not applicable (aqueous liquid). <u>Upper flammability/explosion limit:</u> Not applicable (aqueous liquid).
<u>Auto-ignition temperature</u>	No data available
<u>Vapour pressure</u>	ca. 23 hPa (20 °C) estimated, similar to water
<u>Vapour density</u>	No data available
<u>Density</u>	1.18 g/cm ³
<u>Relative density</u>	No data available
<u>Solubility</u>	<u>Water solubility:</u> completely miscible <u>Solubility in other solvents:</u> No information available.
<u>Partition coefficient: n-octanol/water</u>	No data available
<u>Decomposition temperature</u>	> 100 °C
<u>Viscosity</u>	No data available
<u>Explosive properties</u>	No data available
<u>Oxidizing properties</u>	Not considered as oxidizing, Structure-activity relationship (SAR)
9.2 Other information	
<u>Minimum ignition energy</u>	Not applicable (aqueous liquid).
<u>Corrosion of Metals</u>	28.33 mm/y Method: UN Classification procedure, Test Methods and Criteria relating to substances of Class 8, Test C.1 Corrosive to metals Information given is based on data obtained from similar products

SECTION 10: Stability and reactivity

10.1 Reactivity

- No hazards to be specially mentioned.

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- Corrosive in contact with metals, In the presence of water, forms corrosive solutions.
- Attacks many metals releasing highly flammable gas (hydrogen) which generates fire or explosion hazards.

10.4 Conditions to avoid

- Keep away from open flames, hot surfaces and sources of ignition.
- Avoid excessive heat for prolonged periods of time.

10.5 Incompatible materials

- Strong oxidizing agents
- Strong bases
- reactive metals (Al, K, Zn ...).

10.6 Hazardous decomposition products

- On combustion or on thermal decomposition (pyrolysis) releases:
- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
- Oxides of phosphorus

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Not classified as hazardous for acute oral toxicity according to GHS.

According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Acute inhalation toxicity

Not classified as hazardous for acute inhalation toxicity according to GHS.

According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Acute dermal toxicity

Not classified as hazardous for acute dermal toxicity according to GHS.

According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Acute toxicity (other routes of administration)

Not applicable

Skin corrosion/irritation

Rabbit
No skin irritation
The toxicological data has been taken from products of similar composition.

Not classified as irritating to skin

According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Serious eye damage/eye irritation

Risk of serious damage to eyes.

According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Respiratory or skin sensitisation

Does not cause skin sensitisation.

According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Mutagenicity**Genotoxicity in vitro**

Product is not considered to be genotoxic

According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Genotoxicity in vivo

Product is not considered to be genotoxic

According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Carcinogenicity

The product is not considered to be carcinogenic.

According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Toxicity for reproduction and development**Toxicity to reproduction/Fertility**

The product is not considered to affect fertility.

According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Developmental Toxicity/Teratogenicity

The product is not considered to be toxic for development.

According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

STOT**STOT - single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.

According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

STOT - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria.

According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

The product itself has not been tested.

Experience with human exposure

No data available

Aspiration toxicity

Not classified for aspiration toxicity according to GHS criteria

According to the available data on the components, According to the classification criteria for mixtures., internal evaluation

SECTION 12: Ecological information**12.1 Toxicity****Aquatic Compartment****Acute toxicity to fish**

The product itself has not been tested. Global ecotoxicity assessment available below.

Acute toxicity to daphnia and other aquatic invertebrates

The product itself has not been tested. Global ecotoxicity assessment available below.

Toxicity to aquatic plants

The product itself has not been tested. Global ecotoxicity assessment available below.

Toxicity to microorganisms

The product itself has not been tested.

Chronic toxicity to fish

The product itself has not been tested. Global ecotoxicity assessment available below.

Chronic toxicity to daphnia and other aquatic invertebrates

The product itself has not been tested. Global ecotoxicity assessment available below.

Sediment compartment**Toxicity to benthic organisms**

The product itself has not been tested.

Terrestrial Compartment**Toxicity to soil dwelling organisms**

The product itself has not been tested.

Toxicity to terrestrial plants

The product itself has not been tested.

Toxicity to above ground organisms

The product itself has not been tested.

12.2 Persistence and degradability**Abiotic degradation****Stability in water**

Conclusion is not possible for a mixture as a whole.

Photodegradation

Conclusion is not possible for a mixture as a whole.

Physical- and photo-chemical elimination**Physico-chemical removability**

Conclusion is not possible for a mixture as a whole.

Biodegradation**Biodegradability**

As (bio)degradability is not relevant for mixtures, all the components of the mixture were assessed individually (rapid degradability assessment available below).

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water No data available

Bioconcentration factor (BCF) No data available

12.4 Mobility in soil

Adsorption potential (Koc) Conclusion is not possible for a mixture as a whole.

Known distribution to environmental compartments

Vinylphosphonic acid/acrylic acid
copolymer

Ultimate destination of the product : Water
Ultimate destination of the product :

12.5 Results of PBT and vPvB assessment No data available

12.6 Other adverse effects**Ecotoxicity assessment**

Short-term (acute) aquatic hazard No acute environmental hazard identified
According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

Long-term (chronic) aquatic hazard Toxic to aquatic life with long lasting effects.
According to the available data on the components.
According to the classification criteria for mixtures.
Unpublished reports and/or published data.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product Disposal*****Prohibition***

- Do not discharge directly into the environment.
- Do not dispose of with domestic refuse.
- Dispose of as hazardous waste in compliance with local and national regulations.

Advice on cleaning and disposal of packaging***Prohibition***

- Do NOT dispose of untreated packaging with industrial waste.
- Do not dispose of with domestic refuse.
- Empty remaining contents.
- Clean using steam.
- Monitor the residual vapours.
- Dispose of rinse water in accordance with local and national regulations.
- Containers that cannot be cleaned must be treated as waste.
- Dispose of contents/ container to an approved waste disposal plant.
- Dispose of in accordance with local regulations.
- In accordance with IMDG regulations, containers or tankers, which have not been cleaned or deodorized and which previously contained a hazardous product, must either be labelled or have hazard signs.
- In accordance with RID/ADR regulations containers or tankers, which have not been cleaned or deodorized and which previously contained a hazardous product, must either be labelled or have hazard signs.

- Where possible recycling is preferred to disposal or incineration.
- The recycled material must be completely dry and free of pollutants.

SECTION 14: Transport information**IMDG**

14.1 UN number	UN 3265
14.2 Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Vinylphosphonic acid/acrylic acid copolymer)
IMDG Code segregation group	Acids (SGG1)
14.3 Transport hazard class	8
Label(s):	8
14.4 Packing group	
Packing group	III
14.5 Environmental hazards	YES
Marine pollutant	
14.6 Special precautions for user	
EmS	F-A , S-B

For personal protection see section 8.

14.7 Transport in bulk vessels according to IMO instruments

No data available

IATA

14.1 UN number	UN 3265
14.2 Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Vinylphosphonic acid/acrylic acid copolymer)
14.3 Transport hazard class	8
Label(s):	8
14.4 Packing group	
Packing group	III
14.5 Environmental hazards	YES
14.6 Special precautions for user	
Packing instruction (cargo aircraft)	856
Max net qty/pkg	60.00 L
Packing instruction (passenger aircraft)	852
Max net qty/pkg	5.00 L

For personal protection see section 8.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Local regulations**

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No data available

Notification status

Inventory Information	Status
United States TSCA Inventory	- All substances listed as active on the TSCA inventory
Canadian Domestic Substances List (DSL)	- One or more components not listed on inventory
Australia Inventory of Chemical Substances (AICS)	- One or more components not listed on inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- One or more components not listed on inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- One or more components not listed on inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- One or more components not listed on inventory
Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- One or more components is not listed on the NZIOC inventory. The HSNO status of the product has not been assessed.
EU. European Registration, Evaluation, Authorisation and Restriction of Chemical (REACH)	- When purchased from a Solvay legal entity based in the EEA ("European Economic Area"), this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information.

SECTION 16: Other information**Full text of H-Statements**

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|--------|--|
| - H226 | Flammable liquid and vapour. |
| - H290 | May be corrosive to metals. |
| - H302 | Harmful if swallowed. |
| - H312 | Harmful in contact with skin. |
| - H314 | Causes severe skin burns and eye damage. |
| - H318 | Causes serious eye damage. |
| - H332 | Harmful if inhaled. |
| - H400 | Very toxic to aquatic life. |
| - H411 | Toxic to aquatic life with long lasting effects. |

Key or legend to abbreviations and acronyms used in the safety data sheet

- | | |
|-------|-------------------------------|
| - TWA | 8-hour, time-weighted average |
|-------|-------------------------------|

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.