

# SAFETY DATA SHEET RAIN REPELLENT

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

## 1.1. Product identifier

Product name RAIN REPELLENT

Product number BRA250, APL250

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

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

Supplier TETROSYL LIMITED

Bury Lancashire England BL9 7NY 0161 764 5981 0161 797 5899 info@tetrosyl.com

Manufacturer TETROSYL LIMITED

Bury Lancashire England BL9 7NY 0161 764 5981 0161 797 5899 info@tetrosyl.com

## 1.4. Emergency telephone number

**Emergency telephone** +44 (0)161 764 5981

### SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225

**Health hazards** Eye Irrit. 2 - H319 STOT SE 3 - H336

Environmental hazards Not Classified

## 2.2. Label elements

## **Pictogram**





Signal word

Danger

Hazard statements H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Precautionary statements** 

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

smoking.

P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER/ doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/ attention.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

Contains IPA

Supplementary precautionary

P240 Ground/ bond container and receiving equipment.

**statements** P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

IPA 90.996%

CAS number: 67-63-0 EC number: 200-661-7 REACH registration number: 01-

2119457558-25-0000

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336

SULPHURIC ACID ...% 0.5-<1%

CAS number: 7664-93-9 EC number: 231-639-5

Classification

Skin Corr. 1A - H314 Eye Dam. 1 - H318

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information Remove affected person from source of contamination. Effects may be delayed. Keep

affected person under observation. Get medical attention. CAUTION! First aid personnel must be aware of own risk during rescue! Move affected person to fresh air at once. Keep affected person away from heat, sparks and flames. If breathing stops, provide artificial respiration. Place unconscious person on the side in the recovery position and ensure

breathing can take place.

**Inhalation** Remove affected person from source of contamination. Move affected person to fresh air and

keep warm and at rest in a position comfortable for breathing. Keep affected person under observation. Get medical attention. Show this Safety Data Sheet to the medical personnel. Place unconscious person on their side in the recovery position and ensure breathing can

take place. If breathing stops, provide artificial respiration.

**Ingestion** Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if

readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel. Never give anything by mouth to an unconscious person. Keep affected person away from heat, sparks and flames. Place unconscious person on their side in the recovery position and ensure

breathing can take place.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Rinse with

water. Use suitable lotion to moisturise skin. Get medical attention promptly if symptoms occur

after washing.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Do not rub eye. Get medical attention if any

discomfort continues.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure. Effects may be delayed. Keep affected person under observation.

In case of overexposure, organic solvents may depress the central nervous system causing

dizziness and intoxication, and at very high concentrations unconsciousness and death. Vapours may cause headache, fatigue, dizziness and nausea. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache.

Fatigue. Dizziness. Central nervous system depression.

Ingestion May cause discomfort if swallowed. May cause stomach pain or vomiting. May cause nausea,

headache, dizziness and intoxication. Central nervous system depression. Fumes from the

stomach contents may be inhaled, resulting in the same symptoms as inhalation.

**Skin contact** Prolonged contact may cause redness, irritation and dry skin.

**Eye contact** Irritation, burning, lachrymation, blurred vision after liquid splash.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Foam, carbon dioxide or dry powder. Water. Use fire-

extinguishing media suitable for the surrounding fire.

## Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

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

## Specific hazards Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel

along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember. The product is highly flammable. Forms explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable

distance to a source of ignition and flash back.

Hazardous combustion

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes. Risk of re-ignition after fire has been extinguished. Risk of explosion. Cool containers exposed to flames with water until well after the fire is out. Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material.

Special protective equipment for firefighters

Leave danger zone immediately.

## SECTION 6: Accidental release measures

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

### Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet. Use suitable respiratory protection if ventilation is inadequate. Take precautionary measures against static discharges. No smoking, sparks, flames or other sources of ignition near spillage. Do not breathe vapour. Avoid contact with skin and eyes. In case of spills, beware of slippery floors and surfaces.

### 6.2. Environmental precautions

## **Environmental precautions**

Do not discharge into drains or watercourses or onto the ground. Avoid the spillage or runoff entering drains, sewers or watercourses.

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

### Methods for cleaning up

For waste disposal, see Section 13. Stop leak if possible without risk. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Cover large spillages with alcohol-resistant foam.

### 6.4. Reference to other sections

Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

### Usage precautions

Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Vapours may accumulate on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Good personal hygiene procedures should be implemented. Provide adequate ventilation. Use approved respirator if air contamination is above an acceptable level. Mechanical ventilation or local exhaust ventilation may be required.

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

**Storage precautions** Keep away from heat, sparks and open flame. Keep container tightly closed. Keep containers

upright. Keep only in the original container. Avoid contact with oxidising agents. Do not store

near heat sources or expose to high temperatures.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

### **SECTION 8: Exposure Controls/personal protection**

### 8.1. Control parameters

### Occupational exposure limits

#### **IPA**

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

#### **SULPHURIC ACID ...%**

Long-term exposure limit (8-hour TWA): WEL 0,05 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

### 8.2. Exposure controls

## Protective equipment













## Appropriate engineering controls

Use explosion-proof general and local exhaust ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. All handling should only take place in well-ventilated areas.

## Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

## Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

### Hygiene measures

Provide eyewash station. Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke. Contaminated clothing should be placed in a closed container for disposal or decontamination.

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respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the

following cartridge: Gas filter, type AX.

### SECTION 9: Physical and Chemical Properties

## 9.1. Information on basic physical and chemical properties

Appearance Clear liquid.

Colour Yellow.

Odour Strong. Alcoholic.

Melting point Not determined.

Initial boiling point and range 82°C @

Flash point 12°C

**Evaporation rate** Not determined.

Upper/lower flammability or

explosive limits

Not determined.

Vapour pressure Not determined.

Vapour density Not determined.

Relative density 0.80 g/cm³ @ 20°C

Solubility(ies) Miscible with water.

Partition coefficient Not determined.

**Auto-ignition temperature** Not determined.

**Decomposition Temperature** Not determined.

Viscosity <50 cP @ 20°C

9.2. Other information

Other information None.

### SECTION 10: Stability and reactivity

## 10.1. Reactivity

**Reactivity** Vapours may form explosive mixtures with air.

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

## 10.3. Possibility of hazardous reactions

Possibility of hazardous

Not relevant.

reactions

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or

direct sunlight.

10.5. Incompatible materials

Materials to avoid Strong acids. Chemically-active metals. Strong oxidising agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition

products

None at ambient temperatures. Oxides of carbon. Thermal decomposition or combustion may

liberate carbon oxides and other toxic gases or vapours.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** No information available.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

**Genotoxicity - in vivo**Based on available data the classification criteria are not met.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure A single exposure may cause the following adverse effects: Central and/or peripheral nervous

system damage.

Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

General information Prolonged and repeated contact with solvents over a long period may lead to permanent

health problems. Extensive use of the product in areas with inadequate ventilation may result

in the accumulation of hazardous vapour concentrations.

Inhalation Vapours may irritate throat/respiratory system. Symptoms following overexposure may include

the following: Headache. Dizziness. Drowsiness. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. The product contains organic solvents. Overexposure may depress the central nervous system, causing

dizziness and intoxication.

**Ingestion** May cause internal injury. May cause nausea, headache, dizziness and intoxication.

Skin contact Prolonged contact may cause dryness of the skin. Repeated exposure may cause skin

dryness or cracking.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness.

Pain. Vapour or spray in the eyes may cause irritation and smarting.

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Acute and chronic health

hazards

This chemical can be hazardous when inhaled and/or touched. This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns. May cause

severe internal injury. Vapour from this product may be hazardous by inhalation.

Route of entry Inhalation Ingestion. Skin and/or eye contact Skin absorption

Medical symptoms Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo.

chemical pneumonitis.

### SECTION 12: Ecological Information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or

frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 4200-9640 (IPA) mg/l, Algae

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 2285 (IPA) mg/l, Daphnia magna

Acute toxicity - aquatic plants IC<sub>50</sub>, 72 hours: 1000-18000 (IPA) mg/l, Fish

### 12.2. Persistence and degradability

**Persistence and degradability** The product is expected to be biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

Partition coefficient Not determined.

12.4. Mobility in soil

Adsorption/desorption

coefficient

Not available.

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

## 12.6. Other adverse effects

Other adverse effects Not available.

### SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in

accordance with the requirements of the local Waste Disposal Authority. Do not puncture or

incinerate, even when empty.

Disposal methods Confirm disposal procedures with environmental engineer and local regulations. Containers

should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated because of the risk of an explosion. Reuse or

recycle products wherever possible.

### **SECTION 14: Transport information**

### 14.1. UN number

UN No. (ADR/RID) 1219 UN No. (IMDG) 1219 UN No. (ICAO) 1219

### 14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

ISOPROPANOL (ISOPROPYL ALCOHOL)

Proper shipping name (IMDG) ISOPROPANOL (ISOPROPYL ALCOHOL) Proper shipping name (ICAO) ISOPROPANOL (ISOPROPYL ALCOHOL) Proper shipping name (ADN) ISOPROPANOL (ISOPROPYL ALCOHOL)

### 14.3. Transport hazard class(es)

ADR/RID class 3 ADR/RID label 3 **IMDG class** 3 ICAO class/division 3

### Transport labels



## 14.4. Packing group

ADR/RID packing group Ш IMDG packing group Ш ICAO packing group Ш

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

## 14.6. Special precautions for user

**EmS** F-E, S-D

**Emergency Action Code** •2YE

**Hazard Identification Number** 

(ADR/RID)

Tunnel restriction code (D/E)

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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### SECTION 15: Regulatory information

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

National regulations EH40/2005 Workplace exposure limits

**EU** legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 22/01/2018

Revision 7

Supersedes date 17/05/2016
SDS status Approved.

Hazard statements in full H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.