PanReac AppliChem ITW Reagents

Safety Data Sheet
According to Regulation (EU) 830/2015

1007 **Acetone**

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Name:
Acetone

Synonym:
2-Propanone, ß-Ketopropane, Dimethylketone, Pyroacetic Ether

REACH Registration Number: 01-2119471330-49-XXXX

1.2 Relevant identified uses of the substance or mixture:

Production of the substance.
Distribution of Substance.
Mixing, preparation and repackaging.
Use as laboratory chemicals.
Use in coatings.
Use as binders and release agents.
Production and processing of Rubber.
Manufacture of polymers.
Polymer processing.
Blowing agents.
Mining chemicals.
Agrochemical use.
De-icing and anti-icing applications.

1.3 Identification of the company or firm:
PANREAC QUIMICA S.L.U.
C/Garraf 2
Polígono Pla de la Bruguera
E-08211 Castellar del Vallès
(Barcelona) Spain
Tel. (+34) 937 489 400
e-mail: product.safety@panreac.com

1.4 Emergency telephone:
Single telephone number for emergency calls: 112 (EU)

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Flam. Liq. 2
Eye Irrit. 2
STOT SE 3

2.2 Label elements:

Hazard Pictograms

Signal word

Hazard statements
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
EUH066 Repeated exposure may cause skin dryness or cracking.
H336 May cause drowsiness or dizziness.

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

3.1 Substances

Name: Acetone
Formula: CH3COCH3 M.= 58,08 CAS [67-64-1]
EC number (EINECS): 200-662-2
EC index number: 606-001-00-8
REACH Registration Number: 01-2119471330-49-XXXX

3.2 Mixtures

4. First aid measures

4.1 Description of first aid measures
Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
Swallowing:
Wash mouth out immediately. Drink large amounts of water. Do not induce vomiting. Seek immediate medical assistance.
· **Most important symptoms and effects, both acute and delayed:**
See Section 11 for more information.
· **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

Inhaling:
Take the person out into the fresh air. In the event of suffocation, proceed immediately to provide artificial respiration. Seek immediate medical assistance.

Contact with the skin:
Wash with plenty of soap and water. Remove contaminated clothing.

Eyes:
Wash with plenty of water, keeping eyelids open. Seek medical assistance.

5. Firefighting measures

5.1 Extinguishing media:
Alcohol resistant foam. Dry powder.

5.2 Special hazards arising from the substance or mixture:
Combustible. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. Auf Rückzündung achten Risk of inflammation due to accumulation of electrostatic charges. In the event of fire, toxic fumes may form: CO y CO2.

5.3 Advice for firefighters:
Use complete protective equipment. Self-contained breathing equipment. Cool the recipients with water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Do not inhale the fumes. Protect the respiratory tracts. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate all non-essential personnel. Avoid sources of ignition. Do not smoke.

6.2 Environmental precautions:
Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

6.3 Methods and material for containment and cleaning up:
Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

6.4 Reference to other sections
Not applicable

7. Handling and storage

7.1 Precautions for safe handling:
Avoid the formation of electrostatic charges. Ensure good ventilation and renewal of the air in the premises. Possible formation of pressure inside the container. Avoid breathing dust, fume, gas, mist, vapours or spray. Avoid contact with the skin, eyes or clothing. Use personal protective equipment as required.

7.2 Conditions for safe storage, including any incompatibilities:
Well sealed containers. In well ventilated premises. Away from sources of ignition and heat. Restricted access, only authorized to technicians.
Recommended storage temperature: Room temperature. **Storage class:** 3
Technical instructions (air): Highly flammable.

7.3 Specific end use(s)
No more relevant data available

8. Exposure controls/personal protection

8.1 Control parameters:
VLA-ED: 500 ppm = 1.210 mg/m3 ECTLV: 500 ppm = 1.210 mg/m3
Derived No Effect Level (DNEL)
Workers Dermal, long exposure (local): 186mg/kg bw/24hWorkers Inhalation, acute (local): 2.420 mg/m3 Workers Inhalation, long term (local): 1.210 mg/m3 Population, oral, long term (systemic): 62mg/kg bw/24hPopulation, Dermal, long exposure (systemic): 62mg/kg bw/24hPopulation Inhalation, long term (systemic): 200 mg/m3
Predicted No Effect Concentration (PNEC)
Marine water: 1.06mg/lFreshwater: 10.6mg/lFreshwater Sediment: 30.4mg/lMarine water Sediment: 3.04mg/lSoil: 0.112mg/lSewage treatment plant: 29.5mg/l

8.2 Exposure controls

Ensure good ventilation and renewal of the air in the premises.

Respiratory protection:
In the event of fumes forming/aerosols, use suitable respiratory protection. Filter AX. Filter P3.

Hand protection:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be
observed.
· **For the permanent contact gloves made of the following materials are suitable:**
Material: Butyl rubber. Recommended thickness of the material: >= 0.7 mm Breakthrough time: >= 480 min.
· **As protection from splashes gloves made of the following materials are suitable:**
Material: Natural rubber latex. Recommended thickness of the material: >= 0.7 mm Breakthrough time: >= 10 min.

Eye/face protection:
Use safety glasses.

Individual hygiene measures:
Remove contaminated clothing. Use suitable work clothing. Wash hands before breaks and when the job is done.

Environmental exposure controls:
Avoid pollution of the soil, water supplies and drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance: liquid
Colour:
N/A

Granulometry: N/A
Odour: Characteristic.
pH:
N/A
Melting point/freezing point: -94 °C
Initial boiling point and boiling range: 56,5 °C
Flash point: - 20 °C
Flammability (solid, gas):
N/A
Upper/lower flammability or explosive limits: 12,8 %(V) / 2,2 %(V)
Vapour pressure: 233 hPa (20 °C)
Vapour density: N/A
Relative density: (20/4) 0,791 g/ml
Solubility: in water ( ) ( ) Miscible with water and most of the solvents
Partition coefficient: n-octanol/water:
N/A
Auto-ignition temperature: 465 °C
Decomposition temperature: N/A
Kinematic viscosity: N/A

Dynamic viscosity: 0,31 mPa.s (25 °C)

9.2 Other information

No more relevant data available

10. Stability and reactivity

10.1 Reactivity

No specific data.

10.2 Chemical stability:

Exposure to light and air encourages the formation of peroxides. The gases/fumes can form explosive mixtures with the air.

10.3 Possibility of hazardous reactions

No specific data.

10.4 Conditions to avoid:

High temperatures.

10.5 Incompatible materials:

Strong oxidant agents.

10.6 Hazardous decomposition products:

No specific data.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD50 oral rat : 5.800 mg/kg

Dangerous effects for health:

Skin corrosion/irritation: irritations, slight **Serious eye damage/irritation:** Strongly irritant in rabbits. **Respiratory or skin sensitisation:** Data not available. **Germ cell mutagenicity:** No evidence. **Carcinogenicity:** Data not available. **Reproductive toxicity:** Conclusions are lacking regarding evaluation of a damaging effect on the foetus. **STOT- single exposure:** narcosis **STOT-repeated exposure:** Data not available. **Aspiration hazard:** Data not available. **·Most important symptoms and effects acute:** Irritations to the skin and eyes., Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract., drowsiness, vertigo, nausea, vomiting, headaches, effects on the central nervous system, Upon contact with the skin:, Can de-moisturize and dehydrate it, producing irritation and dermatitis.

12. Environmental information

12.1 Toxicity:

Acute toxicity for Algae:

(Ulva pertusa) EC50 20,565 mg/l (96h)

Acute toxicity for aquatic invertebrates:

(Gammarus pulex) LC50 6000000 ug/l (48h)

(Daphnia magna) LC50 10000 ug/l (48h)

Acute toxicity for fish:

(Pimephales Promelas) LC50 >100000 ug/l (96h)

Chronic toxicity for aquatic invertebrates:

(Daphnia magna) NOEC 0,1 mg/l (21d)

12.2 Persistence and Degradability :

Easily biodegradable product.

12.3 Bioaccumulative potential:

Low

12.4 Mobility in soil :
Product has a low potential for adsorption.

12.5 Assessment PBT and MPMB :
According to Annex XIII of Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Does not meet the criteria for PBT (persistent / bioaccumulative / toxic).
According to Annex XIII of Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Does not meet the criteria vPvB (very persistent / very bioaccumulative).

12.6 Other adverse effects:
Environmental risks cannot be excluded if used and/or disposed of inappropriately.

12.7 General notes:

· **Water hazard class:**

(German Regulation) (Assessment by list):
1 slightly hazardous for water.

(Dutch Regulation):
10 May cause long-term adverse effects in the aquatic environment.

13. Disposal considerations

13.1 Waste treatment methods:
In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.
In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.
2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes.Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.
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Contaminated containers:
Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.
European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.
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14. Transport information

14.1 UN number
UN1090

14.2 UN proper shipping name
ACETONE

14.3 Transport hazard class(es)

3

14.4 Packing group
ADR/IMDG: II
IATA: II

14.5 Environmental hazards

14.6 Special precautions for user
Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
The substance is subject to Regulation (EC) No 273/2004 of the European Parliament and of the Council, of 11 February 2004 on drug precursors, Council Regulation (EC) No 111/2005 of 22 December 2004 laying down rules for the monitoring of trade between the Community and third countries in drug precursors, Commission Regulation (EC) No 1277/2005 of 27 July 2005 laying down implementing rules for Regulation (EC) No 273/2004 of the European Parliament and of the Council on drug precursors and for Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors.
For this product a chemical safety assessment was carried out.

15.2 Chemical safety assessment
Not applicable

16. Other information

Other precautionary statements
P235 Keep cool.

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In respect of the previous review, changes have been made to the following sections: 1,2,4,5,6,7,8,9,10,11,13,14,15
The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.