



SAFETY DATA SHEET

ASCORBIC ACID

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: ASCORBIC ACID

PRODUCT NO: RM026

SYNONYMS, TRADE NAMES: L(+)-ASCORBIC ACID

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EMERGENCY CONTACT NUMBER:

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Classification (67/548/EEC OR
1999/45/EC

Physicochemical None

Label Elements

EC Number 200-066-2

Hazard Statements Not Classified

Other Hazards None.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Product Name Ascorbic Acid

REACH registration notes this product is not classified as hazardous, the information in this

Data sheet is given for guidance only. Substances contained in this Product that are not classified as hazardous have been/will be registered REACH at the appropriate time.

CAS Number 50-81-7

EC Number 200-066-2

Composition Comments The data shown are in accordance with the latest EC Directives.

4 FIRST - AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

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. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

INGESTION

Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. 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. Get medical attention promptly if symptoms occur after washing.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

INHALATION

No specific symptoms known.

EYE CONTACT

May cause temporary eye irritation.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

NOTES FOR THE DOCTOR

No specific recommendations. If in doubt, get medical attention promptly.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA

Use fire- extinguishing media suitable for the surrounding fire.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

SPECIFIC HAZARDS

Oxides of the following substances: Carbon.

HAZARDOUS COMBUSTION PRODUCTS

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

ADVICE FOR FIREFIGHTERS

PROTECTIVE ACTIONS DURING FIREFIGHTING

Contain and collect extinguishing water.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in section 8 of this safety data sheet. Avoid inhalation of dust. Avoid contact with eyes and prolonged skin contact. Provide adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory Body.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

METHODS OF CLEANING UP

Avoid generation and spreading of dust. Collect and place in suitable waste disposal Containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

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.

7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

USAGE PRECAUTIONS

Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid handling which leads to dust formation. Take precautionary measures against static discharges.

CONDUSTIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

STOREAGE PRECAUTIONS

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

SPECIFIC END USE(S)

SPECIFIC END USE(S)

The identified uses for this product are detailed in section 1

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

OCCUPATIONS EXPOSURE LIMITS

Long-term exposure limit (8 hour TWA): WEL 10mg/m³

WEL= Workplace Exposure Limit

INGREDIENT COMMENTS

No exposure limits known for ingredient(s).

EXPOSURE CONTENT

PROTECTIVE EQUIPMENT



APPROPRIATE ENGINEERING CONTROLS

Provide Adequate Ventilation

EYE/FACE PROTECTION

The following protection should be worn: Chemical splash goggles.EN 166

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.EN374

OTHER SKIN AND BODY PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

HYGIENE MEASURES

Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

RESPIRATORY PROTECTION

No specific recommendations. Protection against nuisance dust must be used when the airborne concentration exceeds 10mg/m³. Wear a respirator fitted with the following cartridge: Particulate filter, type P2. EN 136/140/145/143/149

9 PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Granules. Or Crystals.
COLOUR	White.
ODOUR	Odourless.
pH	pH (diluted solution): 2.1-2.6 @5%
MELTING POINT	Approx 190 dec
RELATIVE DENSITY	0.7-1.0@ dec
SOLUBILITY(IES)	Soluble in water
PARTITION COEFFICIENT	:-1.88 (Calculated)
OTHER INFORMATION	
OTHER INFORMATION	Not available
MOLECULAR WEIGHT	176.13

10 STABILITY AND REACTIVITY

REACTIVITY

REACTIVITY

The Following materials may react with the product: Strong oxidising agents. The following materials may react strongly with the product: Alkaline earth metals. Powdered metal.

CHEMICAL STABILITY

STABILITY

Stable at normal ambient temperatures.

POSSIBILITY OF HAZARDOUS REACTIONS

POSSIBILITY OF HAZARDOUS REACTIONS

Not determined

CONDITIONS TO AVOID

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

INCOMPATIBLE MATERIALS

MATERIALS TO AVOID

Strong oxidising agents, strong alkalis. Alkali metals.

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS DECOMPOSITION PRODUCTS

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

11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

INHALATION

Dust in high concentrations may irritate the respiratory system.

INGESTION

No harmful effects expected from quantities likely to be ingested by accident.

SKIN CONTACT

Skin irritation should not occur when used as recommended.

EYE CONTACT

Particles in the eyes may cause irritation and smarting.

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.

TOXICITY

ACUTE TOXICITY- FISH LC50 96 hours :> 1000mg/l, fish

ACUTE TOXICITY – AQUATIC EC50 48 hours: 360 mg/l, Daphnia magna

INVERTEBRATES

PERSISTENCE AND DEGRADABILITY

PERSISTENCE AND DEGRADABILITY The product is biodegradable.

BIOACCUMULATIVE POTENTIAL
BIOACCUMULATIVE POTENTIAL The product is not bioaccumulation
PARTITION COEFFICIENT : -1.88(Calculated)
MOBILITY IN SOIL
RESULTS OF PBT AND vPvB ASSESSMENT
RESULTS OF PBT AND vPvB ASSESSMENT
No Information available.
OTHER ADVERSE EFFECTS
OTHER ADVERSE EFFECTS
Not determined.

13 DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS
GENERAL INFORMATION
Waste should be treated as controlled 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
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14 TRANSPORT INFORMATION

GENERAL
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
UN NUMBER
Not Applicable.
UN PROPER SHIPPING NAME
Not applicable.
TRANSPORT HAZARD CLASS (ES)
Not Applicable.
PACKING GROUP
Not Applicable.
ENVIRONMENTAL HAZARDS
ENVIRONMENTAL HAZARDOUS SUBSTANCE/MARINE POLLUTANT
No
SPECIAL PRECAUTIONS FOR USE
Not Applicable
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE
TRANSPORT IN BULK ACCORDING TO
Not Applicable

15 REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE
EU LEGISLATION
Regulation (EC) No 1907/2006 of the European Parliament and of the council of 18 December 2006 concerning the Regulation, Evaluation, Authorisation and Restriction of chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and council of 16 December 2008 on classification, labelling and packing of substances and mixtures (as amended).

CHEMICAL SAFETY ASSESSMENT

No chemical safety assessment has been carried out.

16 OTHER INFORMATION

Risk Phrases in full Not classified.

DISCLAIMER

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this SDS is to the best of JML's knowledge correct at the time of publication. However, no guarantee is given to its accuracy, reliability or completeness and the information may not be valid if the product is used in combination with other materials or process. It is the responsibility of the user to ensure that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulatory requirements.