



SAFETY DATA SHEET

ACETYLSALICYLIC ACID

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: ACETYLSALICYLIC ACID

PRODUCT NO: RM006

SYNONYMS, TRADE NAMES: ACETYLSALICYLIC ACID

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EMERGENCY CONTACT NUMBER:

2 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

CLASSIFICATION ACCORDING TO REGULATION (EC) NO. 1272/2008

Acute Toxicity, Category 4 – H302: Harmful if swallowed.

For the full text of H-Statements see Section 16

PRIMARY EFFECTS

Physicochemical: None.

Human Health: Harmful if swallowed.

Environmental: None.

LABEL ELEMENTS

LABELLING ACCORDING TO REGULATION (EC) NO. 1272/2008

Pictogram:



Signal Word: Warning

Hazard Statement(s): H302 – Harmful if swallowed.

Precautionary Statement(s):

P264 – Wash thoroughly after handling.

P270 – Do not eat, drink, or smoke when using this product.

P301 + P312 – IF SWALLOWED: Call a POISON Centre or doctor/physician if you feel unwell.

P330 – Rinse mouth.

OTHER HAZARDS

None known.

3 COMPOSITION/INFORMATION ON INGREDIENTS

GENERAL COMPOSITIONAL DESCRIPTION

HAZARDOUS COMPONENTS ACCORDING TO REGULATION (EC) NO. 1272/2008

Component Name and identifiers	Classification	Concentration, %w/w
Acetylsalicylic acid EC No. 200-064-1	Acute Tox. Cat 4 H302	>99.5%

For the full text of H-Statements and R-phrases see Section 16

4 FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE

IF INHALED

Move to fresh air. Seek medical advice/assistance if symptoms develop or persist.

IN CASE OF SKIN CONTACT

Remove and isolate contaminated clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation develops and persists.

IN CASE OF EYE CONTACT

Flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops or persists.

IF SWALLOWED

Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting without advice from poison control centre. Get medical attention if any discomfort occurs or symptoms develop.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Ingestion of large amounts may cause gastrointestinal irritation, nausea, vomiting and gastrointestinal bleeding. Inhalation of dusts may cause respiratory irritation.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Provide general supportive measures and treat symptomatically.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA

Water fog. Carbon dioxide.

UN SUITABLE EXTINGUISHING MEDIA

None known.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Dust may form explosive mixture with air. During fire, gases hazardous to health may be formed.

ADVICE FOR FIREFIGHTERS

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

FURTHER INFORMATION

In the event of fire, cool containers with water spray. Move containers from fire area if you can do so without risk. Dike and collect water used to fight fire. Water runoff may cause environmental damage.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

FOR NON-EMERGENCY PERSONNEL

Keep unnecessary personnel away. Keep upwind. Stop leak if you can do so with risk. Avoid inhalation of dust from spilled material. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

FOR EMERGENCY RESPONDERS

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of SDS.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Wash with

sodium carbonate solution (5% Na₂CO₃). Wash off with plenty of water. For waste disposal, see Section 13.

REFERENCE TO OTHER SECTIONS

For personal protective equipment required see Section 8; for disposal information see Section 13.

7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid dust formation. Avoid breathing dust. Provide adequate ventilation. Avoid contact with skin and eyes. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Blanket with inert gas. Observe good industrial hygiene practices. Wear appropriate personal protective equipment.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in closed original container in a dry place. Keep away from heat, sparks and open flame. Protect from moisture. Store away from incompatible materials (See Section 10).

SPECIFIC END USE(S)

Not available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

COMPONENTS WITH OCCUPATIONAL EXPOSURE LIMITS

The following limits set in EH/40/2005 (Second Edition, 2011) are applicable:

Inhalable dust: Long Term Exposure Limit (8hr TWA) $10\text{mg}/\text{m}^3$

Respirable dust: Long Term Exposure Limit (8hr TWA) $4\text{gm}/\text{m}^3$

EXPOSURE CONTROLS

APPROPRIATE ENGINEERING CONTROLS

Local exhaust ventilation should be sufficient to effectively remove and prevent build-up of any dusts or fumes that may be generated during handling or thermal processing. Provide eyewash station and safety shower.

INDIVIDUAL PROTECTION MEASURES, INCLUDING PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION

Wear eye/face protection. Use tight fitting goggles if dust is generated.

SKIN PROTECTION

HAND PROTECTION

Risk of contact: wear protective gloves.

OTHER BODY PROTECTION

Wear suitable clothing.

RESPIRATORY PROTECTION

Wear respirator with dust filter.

ENVIRONMENTAL EXPOSURE CONTROLS

Contain spills and prevent releases and observe national regulations on emissions. Inform local authorities of all major releases.

9 PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION OF BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Crystalline white to colourless powder.
Odour:	Slight
Odour Threshold:	No data available
pH	No data available
Melting/freezing point	136°C
Initial boiling point and boiling range	Decomposes below boiling point.
Flash point	250.0°C
Evaporation rate	No data available.
Flammability (solid,gas)	Not flammable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	0 kPa at 25°C 0,000034 hPa at 25°C
Vapour density	No data available.
Relative density	No data available.
Solubility in	4,6 g/l at 25°C (in water)
Partition coefficient: n-octanol/water	1.19
Auto-ignition temperature	Not applicable.
Decomposition temperature	140°C
Viscosity	Not applicable.
Explosive properties	There are no chemical groups associated with explosive properties present in the molecule.

Oxidising properties Not considered as oxidising, Structure-activity relationship (SAR).

OTHER INFORMATION

Bulk density 700kg/m³ loose

Density 1,35 g/cm³ at 20°C

Dust explosion properties

Kst 233 bar. m/s Maximum pressure: 6,7 bar

St class 2 estimated

Minimum explosible concentration

(MEC) 15 g/m³

Minimum Ignition Energy 9MIE)

-dust cloud 1 – 3 mJ method: Modified Hartmann tube MIKE 3

Solubility (other) Chloroform, Ethanol, Ether, Methanol.

10 STABILITY AND REACTIVITY

REACTIVITY

The product is stable and non-reactive under normal conditions of use, storage and transport.

CHEMICAL STABILITY

Partially hydrolyses at room temperature on contact with humidity.

POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

CONDITIONS TO AVOID

Heat, flames and sparks. Risk of dust ignition in air at concentrations greater than 15 g/m³.

INCOMPATIBLE MATERIALS

Strong oxidising agents. Acids. Alkalies. Caustics.

HAZARDOUS DECOMPOSITION PRODUCTS

Flammable/poisonous gases may be released upon combustion, Carbon oxides, and Phenol.

11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Occupational exposure to the substance or mixture may cause adverse effects.

ACUTE TOXICITY

Harmful if swallowed. LD50 Oral Rat = 200mg/kg.
Not hazardous by other routes.

SKIN CORROSION/IRRITATION

No adverse effect observed (not irritating) Unpublished report.

SERIOUS EYE DAMAGE/EYE IRRITATION

No adverse effect observed (not irritating) Unpublished report.

RESPIRATORY OR SKIN SENSITISATION

Respiratory – Humans: No positive IgE reactions to oral SA challenge (Published data).
Skin – Not classified as a sensitiser. (Guinea pig) Unpublished report.

GERM CELL MUTAGENICITY

In vitro and in vivo tests did not show mutagenic effects. Published data.

CARCINOGENICITY

Not classified as a carcinogen or potential carcinogen in human or animal scenarios.

REPRODUCTIVE TOXICITY

Humans: Epidemiology: No link between ASA use at low (anti-thrombotic) and high (analgesic) doses and adverse effect in Humans. Unpublished internal report.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE

Toxicology Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

SPECIFIC TARGET ORGAN TOXICITY- REPEATED EXPOSURE

Toxicology Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

ASPIRARTION HAZARD

Not applicable for solids.

ADDITIONAL INFORMATION

None available

12 ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION

TOXICITY

Toxicity to fish	LC50 – Fish > 100 mg/l, 96 hours, Weight of evidence. Published data.
Toxicity to Daphnia and other Aquatic invertebrates	EC50 – Daphnia magna 1290 mg/l, 48 hours, Published data. NOEC – Daphnia magna 61 mg/l, 21 days, Published data
Toxicity to algae	EC50 – Desmodesmus subspicatus 107 mg/l, 72 hours, Published data. NOEC - Desmodesmus subspicatus 91 mg/l, 72 hours, Published data.

PERSISTENCE AND DEGRADABILITY

The product is readily biodegradable. Unpublished internal report.

Stability in water: Half-life: 1.2 h at 17°C; pH: 11.3; Published data, Half-life: 6.3 days at 17°C; pH: 7.4; Published data, Half-life: 12.5 days at 17°C; pH: 3.5; Published data.

BIOACCUMULATIVE POTENTIAL

The product is not expected to bioaccumulate. Published data.

MOBILITY IN SOIL

Mobile in soil.

RESULTS OF PBT AND vPvB ASSESSMENT

Not a PBT or vPvB substance or mixture.

OTHER ADVERSE AFFECTS

No other adverse environmental effects (e.g. ozone depletion, Photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this material.

13 DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS**WASTE TREATMENT METHODS****PRODUCT**

Dispose of in accordance with local regulations through a licenced waste disposal contractor.

CONTAMINATED PACKAGING

Since emptied containers may retain product residue, follow label warnings even after container is emptied and dispose of containers as for product above.

14 TRANSPORT INFORMATION

Not classed as hazardous for all modes of transportation.

15 REGULATORY INFORMATION

This safety data sheet has been compiled in accordance with the requirements of Regulation (EC) No. 1907/2006.

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment has not been carried out for this product.

16 OTHER INFORMATION

CHANGES MADE IN THIS UPDATE TO THE SAFETY DATA SHEET

Full update of the Safety Data Sheet to bring in line with the requirements of Regulation (EC) No. 1907/2006.

REFERENCES USED IN THE COMPILATION OF THIS SAFETY DATA SHEET

Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No. 1272/2008 on classification, labelling, and packaging (CLP) of substances and mixtures.

European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) 2015 Edition

International Maritime Dangerous Goods Code 2014 Edition

IATA Dangerous Goods Regulations 56th Edition 2015

IUCLID Dataset for Acetylsalicylic Acid CAS 50-78-2.

National Library of Medicine Hazardous Substances Data Bank online.

Novacyl Safety Data Sheet for Rhodine 3020, Version 11, 20 February 2014.

METHODS OF EVALUATION USED FOR CLASSIFICATION OF THIS MIXTURE UNDER ARTICLE 9 OF REGULATION (EC) NO. 1272/2008

FULL TEXT OF H-STATEMENTS REFERRED TO IN OTHER SECTIONS

H302 – Harmful if swallowed.

TRAINING RECOMMENDED TO BE CARRIED OUT PRIOR TO USE OF THIS MATERIAL

All staff handling this material must be suitably trained in the safe use of chemicals in the relevant industry/workplace.

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.