

SECTION 1: Identification

1.1. Identification

Product form : Substance
 Name : O-acetylsalicylic acid
 Trade name : Acetylsalicylic acid
 CAS-No. : 50-78-2
 Product code : 3000/3020/3025/3040/3080/3118/3126/3210/3220
 Formula : C₉H₈O₄

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Manufacture of basic pharmaceutical products
 Manufacture of pharmaceutical preparations

1.3. Supplier

NOVACYL
 21, Chemin de la Sauvegarde, Ecully Parc CS 33167
 ECULLY Cedex, 69134 - FRANCE
 T +33 (0)4 26 99 18 00
information.fds@novacap.eu

1.4. Emergency telephone number

Country	Organization/Company	Address	Emergency number	Comment
-	3E®	-	+1-866-519-4752	Emergency number (24/7) Code : 333580

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute toxicity (oral) Category 4
 Combustible Dust

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning
 Hazard statements (GHS-US) : May form combustible dust concentrations in air
 Harmful if swallowed
 Precautionary statements (GHS-US) : Wash hands thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 If swallowed: Call a POISON CENTER, a doctor if you feel unwell
 Rinse mouth.
 Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Slightly irritating to eyes and skin. Dust from this product may cause irritation to the respiratory tract. Combustible. Dust may form explosive mixture in air. As a result of flow, agitation, etc, electrostatic charges can be generated.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type : Mono-constituent

Acetylsalicylic acid

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Name	Product identifier	%	GHS-US classification
O-acetylsalicylic acid (Main constituent)	(CAS-No.) 50-78-2	>= 99.5	Acute Tox. 4 (Oral), H302 Comb. Dust

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- First-aid measures after inhalation : Move to fresh air. If symptoms persist call a doctor.
- First-aid measures after skin contact : Remove contaminated clothing and shoes. Wash off with soap and plenty of water. If irritation persists, consult a doctor.
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.
- First-aid measures after ingestion : Do not induce vomiting. Give nothing to drink. If necessary seek medical advice.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after ingestion : On ingestion in large quantities: Irritation of the gastric/intestinal mucosa. Nausea. Vomiting. On ingestion may cause the mucous membranes to bleed.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water fog. Carbon dioxide (CO₂).
- Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

- Explosion hazard : Dust may form explosive mixture in air.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Move away from the container and cool with water from a protected position. Contain the extinguishing fluids by bunding.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Avoid contact with skin and eyes. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Keep upwind. Stop the leak. Avoid breathing dust.

6.1.2. For emergency responders

- Protective equipment : Concerning personal protective equipment to use, see item 8.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Shovel into suitable and closed container for disposal.
- Methods for cleaning up : Wash with sodium carbonate solution (5% Na₂CO₃). Wash off with plenty of water.
- Other information : Avoid creating or spreading dust.

6.4. Reference to other sections

Concerning disposal elimination after cleaning, see item 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid dust formation. Avoid breathing dust. Provide adequate ventilation. Avoid contact with skin and eyes. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Do not use compressed air to transfer, discharge or transport the product. Handle under inert gas. Wear recommended personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety practice. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep in a well-ventilated room. Store in a dry place. Keep container tightly closed.
- Incompatible materials : Strong oxidizing agents. acids. Alkalis and caustic products. Water, humidity.
- Special rules on packaging : Store in original container.
- Packaging materials : Recommended materials : Plastic materials (especially polyethylene). Packing material to avoid : Steel. Aluminum and its alloys.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

O-acetylsalicylic acid (50-78-2)		
ACGIH	Local name	Acetylsalicylic acid (Aspirin)
ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
ACGIH	Remark (ACGIH)	Skin & eye irr
ACGIH	Regulatory reference	ACGIH 2017
NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³

8.2. Appropriate engineering controls

- Appropriate engineering controls : Extraction to remove dust at its source.
- Environmental exposure controls : Do not allow uncontrolled discharge of product into the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear suitable gloves. Breakthrough time : refer to the recommendations of the supplier

Eye protection:

If dust are formed : Safety spectacles with side shields

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. breathing apparatus with filter

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Solid
- Appearance : Crystalline powder.
- Color : white
- Odor : none to slight
- Odor threshold : No data available
- pH : ≈ 2.6 (0,3 % (Mass concentration) Aqueous solution)
- Melting point : 136 °C
- Freezing point : No data available
- Boiling point : Decomposes before boiling
- Flash point : 250 °C

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Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapor pressure	: 0.0034 Pa (25 °C)
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.35 g/cm ³ (20 °C)
Molecular mass	: 180.15 g/mol
Solubility	: Soluble in : Chloroform. Ethanol. Ether. Methanol. Water: 4.6 g/l (25 °C)
Log Pow	: 1.19 (20 °C)
Auto-ignition temperature	: Not applicable
Decomposition temperature	: 140 °C
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosion limits	: >= 15 g/m ³
Explosive properties	: Dust may form explosive mixture in air.
Oxidizing properties	: Non oxidizing material.

9.2. Other information

Minimum ignition energy	: 1 - 3 mJ (MIKE 3)
Bulk density	: 700 kg/m ³
Additional information	: Dust explosion constant: 233 bar.m/s (Maximum explosion pressure: 6,7 bar) Dust explosion class: St 2 (estimated)

SECTION 10: Stability and reactivity

10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use.

10.2. Chemical stability

On contact with humidity : Hydrolyses.

10.3. Possibility of hazardous reactions

Risk of dust explosion.

10.4. Conditions to avoid

Heat. No flames, no sparks.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents. Alkalis and caustic products. Water. Aqueous solution.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

O-acetylsalicylic acid (50-78-2)	
LD50 oral rat	1725 mg/kg
LD50 dermal rabbit	> 7940 mg/kg

Skin corrosion/irritation	: Not classified pH: ≈ 2.6 (0,3 % (Mass concentration) Aqueous solution)
Serious eye damage/irritation	: Not classified pH: ≈ 2.6 (0,3 % (Mass concentration) Aqueous solution)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified In vitro and in vivo tests did not reveal any genotoxic potential (Published data)
Carcinogenicity	: Not classified

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Reproductive toxicity	: Not classified Reproductive toxicity : 3 generation study - rat NOAEL, Fertility, P: 250 mg/kg NOAEL, Fertility, F1: 75 mg/kg NOAEL, Fertility, F2: 75 mg/kg (Published data) (Results obtained on a similar product) Developmental toxicity : NOAEL, teratogenicity, Oral, rat: 50 mg/kg NOAEL, maternal toxicity, Oral, rat: 50 mg/kg (Published data)
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified

O-acetylsalicylic acid (50-78-2)

Additional information	NOAEL, oral, rat: 59 mg/kg (24 months, (Results obtained on a similar product))
Aspiration hazard	: Not classified
Symptoms/effects after ingestion	: On ingestion in large quantities: Irritation of the gastric/intestinal mucosa. Nausea. Vomiting. On ingestion may cause the mucous membranes to bleed.

SECTION 12: Ecological information

12.1. Toxicity

O-acetylsalicylic acid (50-78-2)

LC50 fish	> 1000 mg/l/48h
EC50 Daphnia	1293 mg/l/48h (OECD 202 method) (Daphnia magna)(Published data)
ErC50 (algae)	106.7 mg/l/72h (OECD 201 method) (Published data)

12.2. Persistence and degradability

O-acetylsalicylic acid (50-78-2)

Persistence and degradability	Readily biodegradable. Half-life (in water): 12,5 days (20 °C, pH: 3,5). Half-life (in water): 5,4 days (20 °C, pH: 5). Half-life (in water): 6,3 days (20 °C, pH: 7,4). Half-life (in water): 2,2 days (20 °C, pH: 9,5). (Published data).
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12.3. Bioaccumulative potential

O-acetylsalicylic acid (50-78-2)

Log Pow	1.19 (20 °C)
Bioaccumulative potential	Not potentially bioaccumulable. (Published data).

12.4. Mobility in soil

O-acetylsalicylic acid (50-78-2)

Ecology - soil	Ultimate destination of the product : water. Mobile in soils.
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12.5. Other adverse effects

Other adverse effects	: No additional information available.
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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of in accordance with relevant local regulations. Incinerate at a licensed installation.
Additional information	: Completely empty the packaging prior to decontamination.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

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Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

O-acetylsalicylic acid (50-78-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Not subject to reporting requirements of the United States SARA Section 313

SARA Section 311/312 Hazard Classes

Health hazard - Acute toxicity (any route of exposure)
Physical hazard - Combustible dust

15.2. International regulations

CANADA

O-acetylsalicylic acid (50-78-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

O-acetylsalicylic acid (50-78-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

No additional information available

15.3. US State regulations

O-acetylsalicylic acid (50-78-2)

U.S. - California - Proposition 65 - Carcinogens List

No

U.S. - California - Proposition 65 - Developmental Toxicity

Yes

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

Yes

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

No

U.S. - California - Proposition 65 - Other information

It is especially important not to use aspirin during the last three months of pregnancy, unless specifically directed to do so by a physician because it may cause problems in the unborn child or complications during delivery.

SECTION 16: Other information

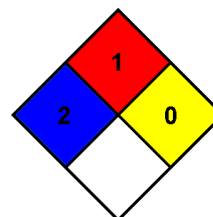
Revision date : 02/22/2018

Data sources : REACH registration.

NFPA health hazard : 2

NFPA fire hazard : 1

NFPA reactivity : 0



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Hazard Rating

Health	: 2 Moderate Hazard
Flammability	: 1 Slight Hazard
Physical	: 0 Minimal Hazard
Personal protection	: E
	E - Safety glasses, Gloves, Dust respirator

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product