



Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 03/04/2023 Revision date: 22/07/2024 Supersedes version of: 03/04/2023 Version: 2.0

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

1.1. Product identifier

Product form : Substance
Substance name : Isotretinoin
Chemical name : Isotretinoin
EC-No. : 225-296-0
CAS-No. : 4759-48-2
Product code : 201600497

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

Relevant identified uses

Use of the substance/mixture : Scientific research and development

Technical testing and analysis For professional use only

Function or use category : Laboratory chemicals

Uses advised against

Restrictions on use : Not for food, drug or home use

1.3. Details of the supplier of the safety data sheet

European Directorate for the Quality of Medicines & Healthcare

EDQM, Council of Europe 7, Allée Kastner, CS30026 F 67081 Strasbourg

France

T +33(0)388412035, F +33(0)388412771

sds@edqm.eu, www.edqm.eu

1.4. Emergency telephone number

Emergency number : +33(0)390215608

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Reproductive toxicity, Category 1A H360D Hazardous to the aquatic environment – Acute Hazard, H400

Category 1

Hazardous to the aquatic environment – Chronic Hazard, H410

Category 1

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Very toxic to aquatic life with long lasting effects. May damage the unborn child.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS08

GHS09

Signal word (CLP) : Danger

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hazard statements (CLP) : H360D - May damage the unborn child.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P391 - Collect spillage. P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

Labelling according to: Exemption for inner packaging where the contents do not exceed 10ml.

Hazard pictograms (CLP)



2.3. Other hazards

Other information : Active substance (in pharmaceutical products).

Warning - substance not yet tested completely.

SECTION 3: Composition/information on ingredients

3.1. Substances

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------|---|-------|---|
| Isotretinoin | CAS-No.: 4759-48-2 EC-No.: 225-296-0 | ≤ 100 | Repr. 1A, H360D Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest. If

the person feels unwell: Get medical advice/attention.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse.

Rinse with water while holding the eyes wide open. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth out with water (only if the person is conscious). Never give anything by mouth

to an unconscious person. Get immediate medical advice/attention.

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

No additional information available

First-aid measures after eye contact

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

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Carbon dioxide. Water spray. Dry

powder. Extinguishing blanket.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other

toxic gases. Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Prevent fire fighting water from entering the environment.

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

General measures : Avoid contact with skin, eyes and clothing.

For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb with an inert material and place in an appropriate waste disposal container.

Methods for cleaning up : Clean contaminated surfaces with an excess of water. Clean with the help of detergents.

6.4. Reference to other sections

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Do not expose pregnant or breastfeeding women.

Precautions for safe handling : Avoid all unnecessary exposure. Ensure good ventilation of the work station.

Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Keep away from heat and

direct sunlight.

Packaging materials : Keep in original containers.

7.3. Specific end use(s)

No additional information available

22/07/2024 (Revision date) EN (English) 3/10

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Both local exhaust and general room ventilation are usually required. Material should be handled in a laboratory hood whenever possible.

Personal protection equipment

Eye and face protection

Eye protection:

Wear eye protection. Safety glasses with side shields. (EN 166)

Skin protection

Skin and body protection:

Wear suitable protective clothing. Laboratory use: Lab coat. (EN 13034)

Hand protection:

Wear suitable gloves. Chemically resistant protective gloves. (EN 374)

Respiratory protection

Respiratory protection:

In case of dust formation use respirator with filter: P3

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

: Solid

Physical state Colour Not available Appearance : Powder. Odour : Not available Odour threshold : Not available Melting point : 170 - 180 °C Freezing point Not available : Not available Boiling point : Not available Flammability Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : Not applicable : Not applicable Auto-ignition temperature Decomposition temperature : Not available : Not available pH solution : Not available Viscosity, kinematic : Not applicable Solubility : Water: < 0.1 g/l Partition coefficient n-octanol/water (Log Kow) : Not available : Not available Vapour pressure Vapour pressure at 50°C Not available : Not available Density : Not available Relative density Relative vapour density at 20°C : Not applicable Particle size : Not available

9.2. Other information

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met; Lack of data)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met; Lack of data)

Acute toxicity (inhalation) : Not classified (Lack of data)

| Isotretinoin (4759-48-2) | |
|--------------------------|------------------------------------|
| LD50 oral rat | > 4000 mg/kg (RTECS No: VH6440000) |
| LD50 dermal rabbit | > 2000 mg/kg |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Not classified (Lack of data)
Respiratory or skin sensitisation : Not classified (Lack of data)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Inconclusive data)
Reproductive toxicity : May damage the unborn child.
STOT-single exposure : Not classified (Inconclusive data)
STOT-repeated exposure : Not classified (Inconclusive data)

Aspiration hazard : Not classified (Technical impossibility to obtain the data)

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Ver

(acute)

: Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term

: Very toxic to aquatic life with long lasting effects.

(chronic)

Isotretinoin (4759-48-2)

LC50 - Fish [1] 0.2 mg/l (96 Hours, Brachydanio rerio (zebra-fish))

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Isotretinoin (4759-48-2) | |
|--------------------------|--|
| EC50 - Crustacea [1] | 0.13 mg/l (48 Hours, Daphnia magna (Water flea)) |

12.2. Persistence and degradability

| Isotretinoin (4759-48-2) | |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR | IMDG | IATA | |
|--|--|--|--|
| 14.1. UN number or ID number | | | |
| UN 3077 | UN 3077 | UN 3077 | |
| 14.2. UN proper shipping name | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. | Environmentally hazardous substance, solid, n.o.s. | |
| Transport document description | | | |
| UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (-) | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT | UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III | |
| 14.3. Transport hazard class(es) | | | |
| 9 | 9 | 9 | |
| | | ************************************** | |

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| ADR | IMDG | IATA |
|------------------------------------|---|------------------------------------|
| 14.4. Packing group | | |
| III | III | III |
| 14.5. Environmental hazards | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-A EmS-No. (Spillage): S-F | Dangerous for the environment: Yes |

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : PP12, B3
Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions (ADR) : T1, BK1, BK2, BK3

Portable tank and bulk container special provisions : TP33

(ADR)

Tank code (ADR) : SGAV, LGBV

Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V13
Special provisions for carriage - Bulk (ADR) : VC1, VC2
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR) $\,$

Hazard identification number (Kemler No.) : 90

Orange plates :

90 3077

Tunnel restriction code (ADR)

Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969 Limited quantities (IMDG) : 5 kg

Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP02, P002
Special packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : BK1, BK2, BK3, T1

Tank special provisions (IMDG) : TP33
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW23

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg

Special provisions (IATA) : A97, A158, A179, A197, A215

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ERG code (IATA) : 9L

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Council Regulation (EC) for the control of dual-use items

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

| Indication of changes | | |
|-----------------------|---|----------|
| Section | Changed item | Comments |
| | Supersedes version of | Added |
| | Revision date | Added |
| 1.1 | EC-No. | Added |
| 1.1 | CAS-No. | Added |
| 1.2 | Use of the substance/mixture | Modified |
| 1.2 | Restrictions on use | Modified |
| 1.2 | Main use category | Removed |
| 2.1 | Adverse physicochemical, human health and environmental effects | Modified |
| 2.1 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified |
| 2.2 | Hazard pictograms (CLP) | Modified |
| 2.2 | Precautionary statements (CLP) | Modified |
| 2.2 | Hazard statements (CLP) | Modified |

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Indication of changes | | |
|-----------------------|--|----------|
| Section | Changed item | Comments |
| 2.3 | Other information | Added |
| 4.1 | First-aid measures general | Added |
| 4.1 | First-aid measures after skin contact | Modified |
| 4.1 | First-aid measures after inhalation | Modified |
| 4.1 | First-aid measures after eye contact | Modified |
| 4.1 | First-aid measures after ingestion | Modified |
| 4.2 | Symptoms/effects | Removed |
| 4.2 | Symptoms/effects after skin contact | Removed |
| 4.2 | Symptoms/effects after inhalation | Removed |
| 4.2 | Symptoms/effects after eye contact | Removed |
| 4.3 | Other medical advice or treatment | Removed |
| 5.1 | Unsuitable extinguishing media | Added |
| 5.1 | Suitable extinguishing media | Modified |
| 5.2 | Hazardous decomposition products in case of fire | Added |
| 5.2 | Fire hazard | Removed |
| 5.3 | Protection during firefighting | Added |
| 5.3 | Firefighting instructions | Modified |
| 6.1 | Emergency procedures | Modified |
| 6.1 | Protective equipment | Added |
| 6.1 | General measures | Modified |
| 6.2 | Environmental precautions | Added |
| 6.3 | Methods for cleaning up | Modified |
| 6.3 | For containment | Added |
| 6.4 | Reference to other sections (8, 13) | Added |
| 7.1 | Additional hazards when processed | Modified |
| 7.1 | Precautions for safe handling | Modified |
| 7.1 | Hygiene measures | Modified |
| 7.2 | Packaging materials | Added |
| 7.2 | Technical measures | Removed |
| 7.2 | Storage conditions | Modified |
| 7.3 | Specific end uses | Removed |
| 8.2 | Respiratory protection | Modified |
| 8.2 | Hand protection | Modified |
| 8.2 | Appropriate engineering controls | Modified |
| 8.2 | Eye protection | Modified |
| 8.2 | Skin and body protection | Modified |
| 9 | Odour | Removed |

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Indication of changes | | |
|-----------------------|----------------------------------|----------|
| Section | Changed item | Comments |
| 9 | Melting point | Added |
| 10.1 | Reactivity | Removed |
| 10.5 | Incompatible materials | Removed |
| 10.6 | Hazardous decomposition products | Removed |
| 11.1 | LD50 dermal rabbit | Added |
| 11.1 | LD50 oral rat | Modified |
| 12.1 | Ecology - general | Removed |
| 12.1 | LC50 - Fish [1] | Added |
| 12.1 | EC50 - Crustacea [1] | Added |
| 13.1 | Regional waste regulation | Removed |
| 14 | Transport information | Modified |

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| H360D | May damage the unborn child. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| Repr. 1A | Reproductive toxicity, Category 1A |

Safety Data Sheet (SDS), EU

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