

Thalidomide

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Revision date:

Version: 1.0

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

1.1. Product identifier

Chemical type	: Substance
Substance name	: Thalidomide
EC no	: 200-031-1
CAS No.	: 50-35-1
Product code	: 1190172
IUPAC name	: (±)-1H-Isoindole-1,3(2H)-dione-2-(2,6-dioxo-3-piperidinyl)
Formula	: C ₁₃ H ₁₀ N ₂ O ₄
Synonyms	: 2-phthalimidoglutaramide

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

1.2.1. Relevant identified uses

Main use category	: Pharmaceutical
Function or use category	: Raw material

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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 2031BH Haarlem - Netherlands
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info@duchefa.com - www.duchefa.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 3 (Oral)	H301
Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation)	H332
Muta. 1A	H340
Repr. 1A	H360Df

Full text of H-phrases: see section 16.

Classification according to Directive 67/548/EEC or 1999/45/EC

Muta.Cat.2; R46
 Repr.Cat.2; R61
 Repr.Cat.3; R62
 T; R25
 Xn; R21/22

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Full text of R-phrases: see section 16.

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS06

GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H301 - Toxic if swallowed
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H340 - May cause genetic defects
H360Df - May damage the unborn child. Suspected of damaging fertility.

Precautionary statements (CLP) : P202 - Do not handle until all safety precautions have been read and understood
P261 - Avoid breathing dust.
P281 - Use personal protective equipment as required
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P308+P313 - IF exposed or concerned: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Thalidomide (Main constituent)	(CAS No.) 50-35-1 (EC no) 200-031-1	98 - 101,5	Muta.Cat.2; R46 Repr.Cat.2; R61 Repr.Cat.3; R62 T; R25 Xn; R21/22

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Thalidomide (Main constituent)	(CAS No.) 50-35-1 (EC no) 200-031-1	98 - 101,5	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Muta. 1A, H340 Repr. 1A, H360Df

Full text of R-, H- and EUH-phrases: see section 16.

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to fresh air. If not breathing, give artificial respiration. Seek medical advice.
- 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. Seek medical advice.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Seek medical advice.
- First-aid measures after ingestion : Rinse mouth. Give water to drink. Never give anything by mouth to an unconscious person. Seek medical advice.

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

- Symptoms/injuries : Insufficient data available.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : All extinguishing agents can be used.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : On exposure to high temperature, may decompose, releasing toxic gases. Carbon monoxide. Nitrogen oxides.
- Explosion hazard : Product is not explosive.

5.3. Advice for firefighters

- Firefighting instructions : Avoid (reject) fire-fighting water to enter environment.
- Protection during firefighting : Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ensure adequate air ventilation. Avoid raising dust.

6.1.2. For emergency responders

- Protective equipment : Wear proper protective equipment. Wear respiratory protection.

6.2. Environmental precautions

Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Sweep up dry powder and dispose properly. To clean the floor and all objects contaminated by this material, use : Water.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in dry, well-ventilated area. Keep container tightly closed. Protect from sunlight.
- Maximum storage period : 3 year
- Storage temperature : 15 - 25 °C

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7.3. Specific end use(s) No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection	: Wear suitable gloves resistant to chemical penetration.
Eye protection	: Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear respiratory protection. Dust production: dust mask with filter type P3.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystalline powder.
Molecular mass	: 258,23 g/mol
Colour	: White.
Odour	: Odourless.
Odour threshold	: No data available
pH	: No data available
Melting point	: 239 - 241 °C
Solidification point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: 0,33
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

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Explosive properties : No data available

Oxidising properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions. May decompose under the influence of light.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Toxic if swallowed. Harmful in contact with skin. Harmful if inhaled.

Thalidomide (50-35-1)

LD50 oral rat 113 mg/kg

LD50 dermal rat 1550 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : Not classified

Reproductive toxicity : May damage the unborn child. Suspected of damaging fertility.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Thalidomide (50-35-1)

Log Pow 0,33

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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Thalidomide (50-35-1)

This substance/mixture does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Avoid release to the environment.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No. : 2811

14.2. UN proper shipping name

Proper Shipping Name : TOXIC SOLID, ORGANIC, N.O.S.

Transport document description : UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (contains Thalidomide), 6.1, III, (E)

14.3. Transport hazard class(es)

Class (UN) : 6.1

Hazard labels (UN) : 6.1



14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Other information : No supplementary information available.

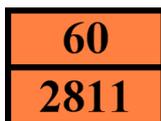
14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 60

Classification code : T2

Orange plates :



Tunnel restriction code : E

Limited quantities (ADR) : LQ09

Excepted quantities (ADR) : E1

EAC code : 2X

14.6.2. Transport by sea

No additional information available

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14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No additional information available

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

	Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
	Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
	Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
	Muta. 1A	Germ cell mutagenicity Category 1A
	Repr. 1A	Reproductive toxicity Category 1A
	H301	Toxic if swallowed
	H312	Harmful in contact with skin
	H332	Harmful if inhaled
	H340	May cause genetic defects
	H360Df	May damage the unborn child. Suspected of damaging fertility.
	R21/22	Harmful in contact with skin and if swallowed.
	R25	Toxic if swallowed.
	R46	May cause heritable genetic damage.
	R61	May cause harm to the unborn child.
	R62	Possible risk of impaired fertility.
	T	Toxic
	Xn	Harmful

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.