

# SAFETY DATA SHEET

Creation Date 04-Mar-2016 Revision Date 28-Dec-2021 Revision Number 4

1. Identification

Product Name Lamotrigine

Cat No.: AC460850000; AC460850010; AC460850050

**CAS No** 84057-84-1

**Synonyms** 6-(2,3-Dichlorophenyl)-1,2,4-triazine-3,5-diamine

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

Company

UK entity/business nameAcros OrganicsFisher Scientific UKOne Reagent LaneBishop Meadow Road,Fair Lawn, NJ 07410

Loughborough, Leicestershire LE11 5RG,

United Kingdom

General info; Tel: +44 (0)1509 231166

EU entity/business name

Acros Organics BVBA

Janssen Pharmaceuticalaan 3a, 2440 Geel,

Belgium

General Info; Tel: +32-14-57 52 11

(info@acros.com)

Technical Support; Tel +32-14-56 56 00 (acros.techsupport@thermofisher.com)

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

# 2. Hazard(s) identification

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This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Category 3

Label Elements

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# Signal Word

Danger

#### **Hazard Statements**

Toxic if swallowed



#### **Precautionary Statements**

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth **Storage** Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3.	Composition	/Information on	Ingredients
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Component	CAS No	Weight %	
Lamotrigine	84057-84-1	>95	

#### 4. First-aid measures

**General Advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Immediate medical attention is required.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

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Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

#### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Carbon oxides. Hydrogen chloride. Nitrogen oxides (NOx). Carbon dioxide (CO2).

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	1	0	N/A

# 6. Accidental release measures Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

**Environmental Precautions** Should not be released into the environment.

**Methods for Containment and Clean** Sweep up and shovel into suitable containers for disposal. Avoid dust formation. **Up** 

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.
Storage.	Keep container tightly closed in a dry and well-ventilated place. To maintain product quality: Keep refrigerated. Store under an inert atmosphere. Incompatible Materials. Strong oxidizing agents.

#### 8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

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OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

> EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

# 9. Physical and chemical properties

Solid **Physical State** 

White to off-white **Appearance** 

Odor No information available **Odor Threshold** No information available

No information available pН 218 °C / 424.4 °F **Melting Point/Range** No information available

**Boiling Point/Range** Flash Point No information available **Evaporation Rate** Not applicable

Flammability (solid.gas) No information available

Flammability or explosive limits

Upper No data available No data available

Lower **Vapor Pressure** No information available

**Vapor Density** Not applicable

**Specific Gravity** No information available Solubility Insoluble in water

Partition coefficient; n-octanol/water No data available

**Autoignition Temperature** No information available **Decomposition Temperature** No information available

Viscosity Not applicable C9 H7 Cl2 N5 **Molecular Formula** 

**Molecular Weight** 256.09

# 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

heat sensitive. Air sensitive. Stability

**Conditions to Avoid** Incompatible products. Exposure to air. Heat.

**Incompatible Materials** Strong oxidizing agents

Hazardous Decomposition Products Carbon oxides, Hydrogen chloride, Nitrogen oxides (NOx), Carbon dioxide (CO<sub>2</sub>)

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

**Product Information Component Information** 

LD50 Oral LD50 Dermal LC50 Inhalation Component Lamotrigine LD50 = 205 mg/kg (Rat)Not listed Not listed

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**Toxicologically Synergistic** 

**Products** 

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available Irritation No information available Sensitization

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Lamotrigine	84057-84-1	Not listed				

**Mutagenic Effects** No information available

No information available. **Reproductive Effects** 

No information available. **Developmental Effects** 

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

No information available **Aspiration hazard** 

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

The toxicological properties have not been fully investigated. Other Adverse Effects

## 12. Ecological information

**Ecotoxicity** 

Do not empty into drains.

Persistence and Degradability Insoluble in water

**Bioaccumulation/ Accumulation** No information available.

Is not likely mobile in the environment due its low water solubility. Mobility

#### 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

DOT

**UN-No** UN2811

TOXIC SOLIDS, ORGANIC, N.O.S. **Proper Shipping Name** 

Technical Name Lamotrigine

**Hazard Class** 6.1 **Packing Group** Ш

**TDG** 

**UN-No** UN2811

**Proper Shipping Name** Toxic solid, organic, n.o.s.

**Hazard Class** 6.1

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**Packing Group** Ш

IATA

UN2811 **UN-No** 

**Proper Shipping Name** Toxic solid, organic, n.o.s.

**Hazard Class Packing Group** 

IMDG/IMO

UN-No UN2811

**Proper Shipping Name** Toxic solid, organic, n.o.s.

**Hazard Class** 6.1 **Packing Group** Ш

# 15. Regulatory information

#### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Lamotrigine	84057-84-1	-	-	-

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Lamotrigine	84057-84-1	-	-	281-901-8	-	-	Х	-	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

**SARA 313** Not applicable

See section 2 for more information SARA 311/312 Hazard Categories

**CWA (Clean Water Act)** Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

**CERCLA** Not applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Regulations

Not applicable

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): Ν **DOT Marine Pollutant** Ν

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DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Lamotrigine	84057-84-1	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Lamotrigine	84057-84-1	Not applicable	Not applicable	Not applicable	Not applicable

#### 16. Other information

Prepared By Regulatory Affairs

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 28-Dec-2021

Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**