

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 *No Change Service!*

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

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

1.1 Product identifier

Trade name : MEtherm 51
Unique Formula Identifier (UFI) : 8XC2-Y03D-E00X-CGJN

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

Use of the Sub-stance/Mixture : Cleaning agent

Recommended restrictions on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Supplier : MELAG Medizintechnik GmbH & Co. KG
Geneststraße 6-10

10829 Berlin
Germany
Telephone: +4930-7579110
Telefax: +4930-75791199
MEtherm-OEM@melag.de
www.melag.com

Producer : Schülke & Mayr GmbH
Robert-Koch-Str. 2

22851 Norderstedt
Germany
Telephone: +49 (0)40/ 52100-0
Telefax: +49 (0)40/ 52100318
mail@schuelke.com
www.schuelke.com

E-mail address of person responsible for the SDS/Contact person : ChemicalCompliance@schuelke.com

1.4 Emergency telephone number

Emergency telephone number : Emergency medical information: 8am-10pm (seven days)
contact National Poisons Information Centre,
Beaumont Hospital, Dublin 9 DOV2NO
+353 (0)1 8092166

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 **No Change Service!**

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

Additional Labelling

EUH210 Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
sodium etasulfate	126-92-1 204-812-8 - - - 01-2119971586-23-XXXX	Skin Irrit. 2; H315 Eye Dam. 1; H318 specific concentration limit Eye Irrit. 2; H319 > 10 - < 20 % Eye Dam. 1; H318 > 20 %	>= 1 - < 3

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Take off all contaminated clothing immediately.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 **No Change Service!**

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

- | | | |
|-------------------------|---|---|
| If inhaled | : | If symptoms persist, call a physician. |
| In case of skin contact | : | Wash with water and soap as a precaution. |
| In case of eye contact | : | Flush eyes with water as a precaution. |
| If swallowed | : | Do NOT induce vomiting.
Drink water as a precaution.
If symptoms persist, call a physician. |

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Dry powder
Carbon dioxide (CO₂)
Foam
Water spray jet

- Unsuitable extinguishing media : Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : No information available.
- Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Increased risk of slipping in the presence of leaked / spilled product.

6.2 Environmental precautions

- Environmental precautions : Avoid subsoil penetration.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 *No Change Service!*

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

see Section 8 + 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Wear personal protective equipment.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.

Further information on storage conditions : Recommended storage temperature: 5 - 25°C Protect from frost, heat and direct sunlight.

Advice on common storage : No special restrictions on storage with other products.

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
propane-1,2-diol	57-55-6	OELV - 8 hrs (TWA) (particles)	10 mg/m ³	IE OEL
		OELV - 8 hrs (TWA) (total (vapour and particles))	150 ppm 470 mg/m ³	IE OEL

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
sodium etasulfate	Workers	Skin contact	Long-term systemic effects	4060 mg/kg
	Workers	Inhalation	Long-term systemic	285 mg/m ³

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 *No Change Service!*

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

II			effects	
----	--	--	---------	--

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
sodium etasulfate	Fresh water	0.136 mg/l
	Marine water	0.0136 mg/l
	Fresh water sediment	1.5 mg/kg
	Marine sediment	0.15 mg/kg
	Soil	0.22 mg/kg
	Effects on waste water treatment plants	1.35 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection	: No special protective equipment required.
Hand protection	
Directive	: No special protective equipment required.
Skin and body protection	: No special protective equipment required.
Respiratory protection	: No personal respiratory protective equipment normally required.
Protective measures	: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: yellow
Odour	: characteristic
Odour Threshold	: not determined
Melting point/freezing point	: < -5 °C
Decomposition temperature	Not applicable
Initial boiling point and boiling range	: 102 °C
Upper explosion limit / Upper flammability limit	: No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 *No Change Service!*

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

Lower explosion limit / Lower flammability limit : No data available

Flash point : > 102 °C
Method: ISO 3679

Auto-ignition temperature : No data available

pH : ca. 10.7 (20 °C)
Concentration: 100 %

Viscosity
Viscosity, dynamic : ca. 4 mPa*s
Method: ISO 3219

Viscosity, kinematic : not determined

Solubility(ies)
Water solubility : (20 °C)
completely soluble

Partition coefficient: n-octanol/water : Not applicable

Vapour pressure : No data available

Density : ca. 1.06 g/cm³ (20 °C, 1,013 hPa)

Relative vapour density : No data available

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Does not sustain combustion.

Metal corrosion rate : < 6.25 mm/a
Not corrosive to metals Aluminium and Mild steel

Evaporation rate : No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 *No Change Service!*

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : None reasonably foreseeable.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Possible incompatibility with alkali sensitive materials.

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Components:

sodium etasulfate:

Acute oral toxicity : LD50 (Rat): 2,840 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

sodium etasulfate:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 *No Change Service!*

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

Components:

sodium etasulfate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

sodium etasulfate:

Method : OECD Test Guideline 429
Result : Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

sodium etasulfate:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)
Test system: Bacteria
Method: OECD Test Guideline 471
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

sodium etasulfate:

Species : Rat
Application Route : Oral
Exposure time : 2 Years
Dose : > 1125 mg/kg body weight

Reproductive toxicity

Not classified based on available information.

Components:

sodium etasulfate:

Effects on foetal development : Species: Rat
Application Route: Oral
Dose: 250 milligram per kilogram
Result: negative
Remarks: Did not show teratogenic effects in animal experi-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 *No Change Service!*

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

ments.

Reproductive toxicity - Assessment : No data available

STOT - single exposure

Not classified based on available information.

Components:

sodium etasulfate:

Remarks : No data available

STOT - repeated exposure

Not classified based on available information.

Components:

sodium etasulfate:

Remarks : No data available

Repeated dose toxicity

Components:

sodium etasulfate:

Species : Rabbit
NOAEL : 488 mg/kg
Application Route : Oral
Exposure time : 90-day

Species : Mouse
NOAEL : 400 mg/kg
Application Route : Skin contact
Exposure time : 90-day

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : The product has not been tested.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 *No Change Service!*

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

SECTION 12: Ecological information

12.1 Toxicity

Components:

sodium etasulfate:

- | | | |
|--|---|---|
| Toxicity to fish | : | LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l
Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 483 mg/l
Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : | EC50 (Desmodesmus subspicatus (green algae)): > 511 mg/l
Exposure time: 72 h |
| Toxicity to fish (Chronic toxicity) | : | NOEC: >= 1,357 mg/l
Exposure time: 42 d
Species: Pimephales promelas (fathead minnow) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 1.4 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea) |

12.2 Persistence and degradability

Product:

- | | | |
|------------------|---|---|
| Biodegradability | : | Remarks: The biodegradability of the product has not been tested. |
|------------------|---|---|

Components:

sodium etasulfate:

- | | | |
|------------------|---|---|
| Biodegradability | : | Result: Readily biodegradable.
Biodegradation: 89 %
Exposure time: 28 d
Method: OECD Test Guideline 301B |
|------------------|---|---|

12.3 Bioaccumulative potential

Components:

sodium etasulfate:

- | | | |
|--|---|----------------------------|
| Bioaccumulation | : | Remarks: No data available |
| Partition coefficient: n-octanol/water | : | log Pow: -0.248 |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 *No Change Service!*

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

12.4 Mobility in soil

Components:

sodium etasulfate:

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of the product according to the defined EWC (European Waste Code) No.

Contaminated packaging : Take empty packaging to the recycling plant.

Waste key for the unused product : EWC 070601*

Waste key for the unused product(Group) : Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 *No Change Service!*

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not regulated as a dangerous good

IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

For personal protection see section 8.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 *No Change Service!*

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 1.21 %

Regulation (EC) No. 648/2004, as amended : < 5%: Anionic surfactants, Non-ionic surfactants, Polycarboxylates
Other constituents: Enzymes

Other regulations:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

The components of this product are reported in the following inventories:

AIIC : Not in compliance with the inventory
TECI : Not in compliance with the inventory

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Full text of H-Statements

H315 : Causes skin irritation.
H318 : Causes serious eye damage.

Full text of other abbreviations

Eye Dam. : Serious eye damage
Skin Irrit. : Skin irritation
IE OEL : List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2
IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEtherm 51 *No Change Service!*

Version
01.02

Revision Date:
22.03.2024

Date of last issue: 26.10.2023

tional Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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.