

Date of issue: 01/24/2025 Reviewed on 01/24/2025

1 Identification

· Product identifier

· Trade name: Dimethyl sulfide natural

· CAS Number:

75-18-3

· Other means of identification

· Product number: 1002

• **EC number:** 200-846-2

· Application of the substance / the mixture Flavoring Ingredients

· Details of the supplier of the safety data sheet

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. Advanced Biotech makes NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the Advanced Biotech product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of an Advanced Biotech product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Advanced Biotech product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

· Manufacturer/Supplier:

Advanced Biotech 10 Taft Road Totowa, NJ 07512 USA

Information department:

Product Safety Department productsafety@adv-bio.com

Emergency telephone number:

Infotrac: 1-800-535-5053 (Domestic) & 1-352-323-3500 (International)

Email: responders@infotrac.net & During normal business hours: 1-973-339-6242

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flammable liquids 2 H225 Highly flammable liquid and vapor.



Eye irritation 2A H319 Causes serious eye irritation.

GHS label elements

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.

The substance is classified and labeled according to the Globally Harmonized System (GHS).

(Continued on page 2)

(Continuation of page 1)



Safety Data Sheet acc. to OSHA HCS (29 CFR § 1910.1200)

Date of issue: 01/24/2025 Reviewed on 01/24/2025

Trade name: Dimethyl sulfide natural

· Hazard pictograms



- Signal word Danger
- · Hazard statements

GHS02

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

· Precautionary statements

GHS07

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Information pertaining to particular dangers for man and environment:
- Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 4 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 4 Reactivity = 0

Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

· Chemical characterization: Substances

CAS No. Description

CAS: 75-18-3 Dimethyl sulfide

(Continued on page 3)



Date of issue: 01/24/2025 Reviewed on 01/24/2025

Trade name: Dimethyl sulfide natural

· Identification number(s)

EC number: 200-846-2

(Continuation of page 2)

4 First-aid measures

- · Description of first aid measures
- · **General information:** Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.
- · Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· Protective Action Criteria for Chemicals

PAC-1:

0.5 ppm

PAC-2:

1,000 ppm

PAC-3:

5000* ppm

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Continued on page 4)



Date of issue: 01/24/2025 Reviewed on 01/24/2025

Trade name: Dimethyl sulfide natural

See Section 13 for disposal information.

(Continuation of page 3)

7 Handling and storage

- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

CAS: 75-18-3 Dimethyl sulfide

TLV Long-term value: 10 ppm

- · Additional information: The lists that were valid during the creation were used as a basis.
- · Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- · Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

(Continued on page 5)



Date of issue: 01/24/2025 Reviewed on 01/24/2025

Trade name: Dimethyl sulfide natural

· Penetration time of glove material

(Continuation of page 4)

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· **General Information** Molecular Weight: 62.13 g/mol

· Physical state Liquid

Color: According to product specificationOdor: According to product specification

• Odor threshold:
• Melting point/Melting range:
• Odor threshold:
• Not determined.
• 98 °C (-144.4 °F)

Boiling point/Boiling range: 36-38 °C (96.8-100.4 °F)

• Flammability: Highly flammable.

Explosion limits:

Lower:
Upper:
Flash point:
Auto igniting:
Decomposition temperature:

2.2 Vol %
19.7 Vol %
2.2 °F)
215 °C (-22 °F)
Not determined

• Decomposition temperature: Not determined. pH-value: Not determined.

· Viscosity:

Kinematic: Not determined. Dynamic: Not determined.

Solubility in / Miscibility with

· Water at 20 °C (68 °F): 20 g/l

Partition coefficient (n-octanol/water): Not determined.

Vapor pressure at 20 °C (68 °F): 560 hPa (420 mm Hg)

· Vapor pressure:

Density at 20 °C (68 °F): 0.845-0.855 g/cm³ (7.05153-7.13498 lbs/gal)

· Relative density Not determined.

• Specific Gravity 0.845 - 0.855 @ 20 °C (33.5 - 33.5 @ 68 °F) • Refractive Index 1.428 - 1.438 @ 20 °C (34.6 - 34.6 @ 68 °F)

Vapor densityParticle characteristicsNot determined.Not applicable.

· Other information

· Appearance:

· Form: Liquid

· Important information on protection of health

and environment, and on safety.

· Ignition temperature: Not determined.

(Continued on page 6)



Date of issue: 01/24/2025 Reviewed on 01/24/2025

Trade name: Dimethyl sulfide natural

(Continuation of page 5)

Danger of explosion: Product is not explosive. However, formation of

explosive air/vapor mixtures are possible.

· VOC content: 0.00 %

0.0 g/l / 0.00 lb/gal

Change in condition

· Evaporation rate Not determined.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:		
CAS: 75-18-3 Dimethyl sulfide		
Oral	LD50	3,500 mg/kg (ATE)
		3,300 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	102 mg/l (rat)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories

IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

· Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

- US



Date of issue: 01/24/2025 Reviewed on 01/24/2025

Trade name: Dimethyl sulfide natural

(Continuation of page 6)

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB**: Not applicable.
- · Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

- · UN-Number
- · DOT, IMDG, IATA UN1164
- · UN proper shipping name
- ·DOT

Dimethyl sulfide

· IMDG, IATA

DIMETHYL SULPHIDE

- · Transport hazard class(es)
- · DOT



· Class

3 Flammable liquids

3

· Label

(Continued on page 8)



Date of issue: 01/24/2025 Reviewed on 01/24/2025

Trade name: Dimethyl sulfide natural

(Continuation of page 7)

· IMDG, IATA



Class 3 Flammable liquids

· Label 3

· Packing group

· DOT, IMDG, IATA

· Environmental hazards:

· Marine pollutant: No

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· DOT

· Quantity limitations On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

· IMDG

· Limited quantities (LQ)

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· Special precautions for user Warning: Flammable liquids

Hazard identification number (Kemler code): 33

EMS Number: F-E,S-D

· Stowage Category E

· **Stowage Code** SW2 Clear of living quarters.

· UN "Model Regulation": UN 1164 DIMETHYL SULPHIDE, 3, II

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- · Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act):

ACTIVE

Hazardous Air Pollutants

Substance is not listed.

(Continued on page 9)



Date of issue: 01/24/2025 Reviewed on 01/24/2025

Trade name: Dimethyl sulfide natural

(Continuation of page 8)

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

TLV (Threshold Limit Value)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms





GHS02 GHS07

· Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.



Date of issue: 01/24/2025 Reviewed on 01/24/2025

Trade name: Dimethyl sulfide natural

(Continuation of page 9)

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product Safety Department
- Contact:

Product Safety Department productsafety@adv-bio.com

- · Date of previous version 01/08/2025
- Date of preparation 01/24/2025
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, ÉU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable liquids 2: Flammable liquids – Category 2

Eye irritation 2A: Serious eye damage/eye irritation - Category 2A

US