



MOLYSULF® FM 3000/320 Oil

Safety Data Sheet

according to REACH Regulation EC (1907/2006) amended by Regulation (EU) 2020/878
Issue date: 10/01/2023 Revision date: 25/03/2023 Supersedes version of: 15/09/2022 Version: 1.1

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

1.1. Product identifier

Product form : Mixture
Product name : ASV® Molysulf® FM 3000/320 Oil
Product group : Mixture

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

1.2.1 Use of the substance/mixture

Main use category : For industrial use only by professionals
Use of substance/mixture : Lubricants, Greases and Release Products

1.2.2 Use advised against : No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

ASV Multichemie Private Limited
E 30/3 MIDC Additional Patalganga
Panvel 410 220 India
+91 93265 01213
sds@asvmultichemie.com
www.asvmultichemie.com

Manufacturer

ASV Multichemie Private Limited
E 14, MIDC Additional Patalganga
Panvel 410 220 India
+91 93265 01213
sds@asvmultichemie.com
www.asvmultichemie.com

Distributor

1.4. Emergency telephone number

Emergency number : +91 93265 01213

SECTION 2 : Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP) : Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Adverse physicochemical, human health and environmental effects : Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP) : Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
No labelling applicable.

2.3. Other hazards

Contains no PBT/vPvB substances $\leq 0.1\%$ assessed in accordance with REACH Annex XIII

Other information: This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3 : Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product Identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------|--------------------|---|---|
|------|--------------------|---|---|

This product does not contain, in concentrations equal to or greater than those laid down by the Regulation (EC) No 1907/2006 - Annex II, any substances presenting a health or environmental hazard nor any substances for which there are Community workplace exposure limits in place.

Full text of H-statements: see section 16

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SECTION 4: First aid measures**4.1. Description of first aid measures**

| | |
|---------------------------------------|--|
| First-aid measures general | : Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. If signs/symptoms develop, get medical attention. |
| First-aid measures after skin contact | : Wash skin with plenty of water. Seek medical attention if irritation develops. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. Seek medical attention if irritation develops. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |

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

No additional information available

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

Treat symptomatically.

SECTION 5 : Firefighting measures**5.1. Extinguishing media**

| | |
|--------------------------------|----------------------------------|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. |
| Unsuitable extinguishing media | : None known. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|---|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Gases hazardous to health may be formed. |
|--|---|

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| 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****6.1.1. For non-emergency personnel**

| | |
|----------------------|--|
| Protective equipment | : Wear appropriate equipment and clothing during clean up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. |
|----------------------|--|

| | |
|----------------------|--|
| Emergency procedures | : Exercise caution. Spill area may be slippery. Ventilate spillage area. |
|----------------------|--|

6.1.2. 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". |
| Emergency procedures | : Evacuate unnecessary personnel. Ventilate area. Avoid breathing mist/vapours. Ventilate closed spaces before entering them. |

6.2. Environmental precautions

Avoid release to the environment. Avoid and prevent the material from entering drains, sewers or waterbody. Do not flush into drains or water bodies.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| For containment | : Collect spillage. |
| Methods for cleaning up | : Mechanically recover the product. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For personal protection, see section 8 of the SDS.
For waste disposal, see section 13 of the SDS.



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SECTION 7 : Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.

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

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the workstation.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s)



8.2.2.1. Eye and face protection

Eye protection:
Wear eye protection according to EN 166. Safety glasses with side shields.

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:

For incidental contact with the product wear chemical-resistant gloves (standard EN 374). Use disposable gloves and ensure that they are changed immediately after use. Use Viton gloves.

8.2.2.3. Respiratory protection

Respiratory protection:
No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapour cartridge and full facepiece. (Filter type A)

8.2.2.4. Thermal hazards

Where appropriate thermal protective clothing, where necessary.

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9 : Physical and chemical properties

9.1. Information on basic physical and chemical properties

- | | |
|-----------------|---------------------|
| Physical state | : Liquid |
| Colour | : Colourless |
| Appearance | : Oil |
| Odour | : Characteristic |
| Odour threshold | : No data available |

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| | |
|---|----------------------------------|
| Melting point | : Not applicable |
| Freezing point | : Not data available |
| Boiling point | : No data available |
| Flammability (solid, gas) | : No data available |
| Explosive properties | : Not explosive |
| Explosive limits | : No data available |
| Lower explosion limit | : No data available |
| Upper explosion limit | : No data available |
| Flash point | : +260°C |
| Auto-ignition temperature | : +300°C |
| Decomposition temperature | : No data available |
| pH | : Not applicable |
| pH solution | : Not applicable |
| Viscosity, kinematic | : No data available |
| Solubility | : Insoluble in water |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Vapour pressure | : No data available |
| Vapour pressure at 50°C | : No data available |
| Density | : ~0.84 g/cm ³ @ 20°C |
| Relative density | : Not applicable |
| Relative vapour density at 20°C | : No data available |
| Particle characteristics | : No data available |

9.2 Other Information**9.2.1. Information with regard to physical hazard classes**

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10 : Stability and reactivity**10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid high temperatures. Heat. Flames. Sparks. Hot surfaces. All sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 : Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

| | |
|-------------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |



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| | |
|-----------------------------------|------------------|
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Additional information | : Not classified |

FM 3000/320 Oil

| | |
|----------------------|-------------------------|
| Viscosity, kinematic | ~320 mm ² /s |
|----------------------|-------------------------|

11.2. Information on other hazards

11.2.1 Endocrine disrupting properties

| | |
|--|---|
| Adverse health effects caused by endocrine disrupting properties | : 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. |
|--|---|

| | |
|---------------------------|--|
| 11.2.2. Other information | : No additional information available. |
|---------------------------|--|

SECTION 12 : Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology- general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

12.2. Persistence and degradability

ASV® MOLYSULF® FM 3000/320 Oil

| | |
|-------------------------------|---------------------------------------|
| Persistence and degradability | : No additional information available |
|-------------------------------|---------------------------------------|

12.3. Bioaccumulative potential

ASV® MOLYSULF® FM 3000/320 Oil

| | |
|---------------------------|---------------------------------------|
| Bioaccumulative potential | : No additional information available |
|---------------------------|---------------------------------------|

12.4. Mobility in soil

ASV® MOLYSULF® FM 3000/320 Oil

| | |
|------------------|---------------------------------------|
| Mobility in soil | : No additional information available |
|------------------|---------------------------------------|

12.5. Result of PBT and vPvB assessment

ASV® MOLYSULF® FM 3000/320 Oil

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

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

12.6. Endocrine disrupting properties

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.



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12.7. Other adverse effects

Ozone : Does not contain any ozone depleting substances listed on the Montreal Protocol list.
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste : Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging : Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14 : Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---------------------------------------|---------------|---------------|---------------|
| 14.1. UN Number or ID Number | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shipping name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing Group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental Hazards | | | | |
| Not regulated | Not regulated Marine pollutant: No | Not regulated | Not regulated | Not regulated |
| Other: No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport : Not applicable
Transport by sea : Not applicable
Air Transport : Not applicable
Inland waterway transport : Not applicable
Rail transport : Not applicable

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

REACH Annex XVII (Restriction List) : Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)
REACH Annex XIV (Authorisation List) : Contains no substance(s) listed on REACH Annex XIV (Authorisation List)
REACH Candidate List (SVHC) : Contains no substance(s) listed on the REACH Candidate List
PIC Regulation (Prior Informed Consent) : Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)



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- POP Regulation (Persistent Organic Pollutants)** : Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)
- Ozone Regulation (1005/2009)** : Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)
- 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)

15.1.2. National regulations

No additional information available.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms:

| | |
|---------|---|
| AND | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| CAS-No. | Chemical Abstract Service number |
| COD | Chemical oxygen demand (COD) |
| DMEL | DMEL Derived Minimal Effect level |
| DNEL | DNEL Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| ED | Endocrine disrupting properties |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| N.O.S. | Not Otherwise Specified |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | NOAEL No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |



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| | |
|------|--|
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and Very Bioaccumulative |

| | |
|--------------|---|
| Data sources | REGULATION (EC) No 1272/2008 of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No.1907/2006; Europe ECHA Registered Substances; RTECS – Register of Toxic Effect of chemical Substances; manufacturer's SDS. |
|--------------|---|

Reference standards for detailed advice on Personal Protective Equipment

| EN standard | For |
|-------------|---|
| EN 166 | Personal eye-protection |
| EN 340 | Protective clothing |
| EN 374 | Protective gloves against chemicals and micro-organisms |
| EN 13832 | Footwear protecting against chemicals |
| EN 133 | Respiratory protective devices |

The information provided in this (Material) Safety Data Sheet (M)SDS 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. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

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