



MOLYSULF® AL 600 Liquid

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® AL 600 Liquid
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 : Anti Corrosion 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)

Skin corrosion/irritation	Category 2	H315
Serious eye damage/eye irritation	Category 2	H319
Specific target organ toxicity - single exposure	Category 3 narcosis	H336

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. Causes serious eye irritation.

2.2. Label Elements

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

Hazard pictograms



Signal word : Warning

Hazard ingredients : Acetone; Xylene

Hazard statements :
H226 - Flammable liquid and vapor.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements :
P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P211 - Do not spray on an open flame or other ignition source.



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P261 - Avoid breathing vapor.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves.
P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C.
P501 - Dispose of waste according to applicable legislation.

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	Name	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetone	CAS-No.: 67-64-1 EC No.: 200-662-2 EC Index-No.: 606-001-00-8	25-50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Xylene	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9	25-50	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
aluminium powder (stabilised), flakes	CAS No.: 7429-90-5 EC-No.: 231-072-3 EC-Index No.: 013-002-00-1 REACH No.: 01-2119529243-45	10-30	Flam. Sol., H228

Full text of H-statements: see section 16

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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Seek medical attention if irritation develops.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.



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

Symptoms/effects	: May cause drowsiness or dizziness
Symptoms/effects after skin contact	: Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Eye irritation.

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

Treat symptomatically. Keep victim under observation. Symptoms might be delayed.

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.
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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.
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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.

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.



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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	: Silver
Odour	: Characteristic
Odour threshold	: No data available
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



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Flash point	: 36°C (closed cup)
Auto-ignition temperature	: Not applicable
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	: 1.01 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
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: May cause genetic defects
Carcinogenicity	: May cause cancer
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified



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11.2. Information on other hazards

11.2.1 Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: 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.

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

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Persistence and degradability

: No additional information available

12.3. Bioaccumulative potential

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Bioaccumulative potential

: No additional information available

12.4. Mobility in soil

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Mobility in soil

: No additional information available

12.5. Result of PBT and vPvB assessment

Result of PBT and vPvB assessment

: No additional information available

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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. Other adverse effects

Ozone

: Not classified

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.



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SECTION 14 : Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN Number or ID Number				
UN1263	UN1263	UN1263	UN1263	UN1263
14.2. UN proper shipping name				
Paint mixture	PAINT	Paint	Paint	Paint mixture
14.3. Transport hazard class(es)				
3 	3 	3 	3 	3
14.4. Packing Group				
III	III	III	III	III
14.5. Environmental Hazards				
Yes	Yes Marine pollutant: Yes	Yes The environmentally hazardous substance mark is not required.	Yes	Yes
Additional information				
ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Hazard identification number 30 Limited quantity 5 L Special provisions 163, 650, 367 Tunnel code (D/E) ADR Classification Code: F1			
IMDG	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E, S-E Special provisions 163, 223, 367, 955			
IATA	The environmentally hazardous substance mark may appear if required by other transportation regulations. Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344. Special provisions A3, A72, A192			

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



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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)
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

Does not contain any substances controlled or prohibited that deplete the ozone layer.

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



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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
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.
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Full text of H- and EUH-statements

Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp.Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Carc. Not Classified	Carcinogenicity Not classified.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 1	Flammable solvent, Category 1
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H360FD	Reproductive toxicity.
H362	Effects on or via lactation.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.



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Muta. 1B	Germ cell mutagenicity, Category 1B
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands, forearms and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison centre or doctor.
P331	Do not induce vomiting.
P391	Collect spillage.
P403	Store in a well-ventilated place.
P405	Store locked up.
P410	Protect from sunlight.
P412	Do not expose to temperatures exceeding 50°C.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

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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