

Product Name: SODIUM MOLYBDATE DIHYDRATE

Part No / SKU: RXSOL-60-6605-537

Date of Issue: October 08, 2026

Document Type: Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	SODIUM MOLYBDATE AR DIHYDRATE
Part Number	RXSOL-60-6605-537

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

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Fax	+91 22 27612100 ::::AOH :0091 9821214367
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS	EC number	Weight
SODIUM MOLYBDATE AR DIHYDRATE	10102-40-6	231-551-7	99%

3. HAZARDS IDENTIFICATION

Classification of the substance or mixture	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. prolonged or repeated exposureH336 May cause drowsiness or dizziness. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure
Label elements	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
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.

4. FIRST AID MEASURES

If inhaled	After inhalation: fresh air.
If swallowed	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Most important symptoms and effects, both acute and delaye	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture	Not combustible. Ambient fire may liberate hazardous vapours.
Further information	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Advice for firefighters	In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Environmental Precaution	Do not let product enter drains.
Methods and materials for containment and cleaning	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
Reference to other sections	For For disposal see section 13.

7. HANDLING AND STORAGE

Advice on safe handling	Work under hood. Do not inhale substance/mixture.
Advice on protection against fire and explosion	NA
Hygiene measures	Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.2.
Precautions for safe handling	Advice on safe handling Work under hood. Do not inhale substance/mixture. Hygiene measures Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities	Storage conditions Tightly closed. Dry. Hygroscopic.
Storage conditions	Tightly closed. Dry. Hygroscopic. Hygroscopic.Tightly closed. Dry. Hygroscopic.
Storage conditions	Tightly closed. Dry. Hygroscopic.
Storage class	Storage class (TRGS 510): 13: Non Combustible Solids
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Handling	NA
Advice on general occupational hygiene	NA

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure limit values	No data available
Biological limit values	No data available
Exposure controls	Personal protective equipment
Engineering Control	NA
Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses government standards such as NIOSH (US) or EN 166(EU). Safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
Body Protection	Protective clothing
Skin protection	This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatrill® L This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatrill® L
Respiratory protection	Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P3 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
Other Protection Measure	NA
Control of environmental exposure	Do not let product enter drains.
Thermal hazards	No data available



Gloves



Suit

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Crystalline
Colour	Colorless
Odour	Odorless
Odor Threshold	Not Applicable
pH	5,74 at 430 g/l at 22,5 °C
Melting Point	Melting point/range: 755 °C - lit.
Boiling Point	1.390 °C at ca.1.013 hPa
Flash Point	No data available
Viscosity	Viscosity, kinematic: 2550 mm ² /s - OPPTS 830.7100 Viscosity, dynamic: No data available
Evaporation Rate	Not Applicable
Flammability (solid, gas)	The product is not flammable. - Flammability (solids)
Explosive limits	No Data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No data available
Decomposition temperature	> 750 °C
Vapour pressure	1 hPa at 806 °C
Density	3,2 g/cm ³ at 25 °C
Vapour Density	1 hPa at 806 °C
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	None
Solubility	946 g/l at 25 °C - soluble
Ignition temperature	No information available.
Particle characteristics	No data available
Oxidizing properties	None
Other safety information	No data available

10. STABILITY AND REACTIVITY

Reactivity	No data available
Stability	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	Risk of explosion with: Alkali metals halogen-halogen compounds Generates dangerous gases or fumes in contact with: Strong acids Release of: hydrogen bromide
Conditions to avoid	Avoid moisture. Heat. no information available
Incompatible materials	No data available
Hazardous Polymerization	In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - Rat - male and female - 4.200 mg/kg (OECD Test Guideline 401) Inhalation: No data available LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg (OECD Test Guideline 402)
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 4 h (US-EPA)
Serious eye damage/eye irritation Eyes - Rabbit Result: slight irritation (US-EPA)	Eyes - Rabbit Result: slight irritation (US-EPA)
Respiratory or skin sensitization	Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)
Serious eye damage/eye irritation	Eyes - Rabbit Result: slight irritation (US-EPA)
Rout Of Entry	NA
Toxicity to Animal	NA
Toxic Effects on Human	NA
Germ cell mutagenicity	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative. Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: unscheduled DNA synthesis assay Test system: mammalian cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 482 Result: negative Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Method: OECD Test Guideline 474 Result: negative Remarks: The value is given in analogy to the following substances: ammonium bromide
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure. Central nervous system
Special Remarks on other Toxic Effects on Humans:	NA
Additional Information	Endocrine disrupting properties
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. Repeated dose toxicity - Rat - male and female - Oral - NOAEL (No observed adverse effect level) - 100 mg/kg - LOAEL (Lowest observed adverse effect level) - 225 mg/kg Remarks: The value is given in analogy to the following substances: ammonium bromide RTECS: VZ3150000 Effects due to ingestion may include: sedation To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated Systemic effects: Tiredness After uptake of large quantities: ataxia (impaired locomotor coordination) confusion Convulsions Coma However, when the product is handled appropriately, hazardous effects are unlikely to occur. Handle in accordance with good industrial hygiene and safety practice.

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. Repeated dose toxicity - Rat - male and female - Oral - NOAEL (No observed adverse effect level) - 100 mg/kg - LOAEL (Lowest observed adverse effect level) - 225 mg/kg Remarks: The value is given in analogy to the following substances: ammonium bromide RTECS: VZ3150000 Effects due to ingestion may include:, sedation To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Systemic effects:Tiredness After uptake of large quantities:ataxia (impaired locomotor coordination) confusion Convulsions Coma However, when the product is handled appropriately, hazardous effects are unlikely to occur.Handle in accordance with good industrial hygiene and safety practice.
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12. ECOLOGICAL INFORMATION

Persistence and degradability	No data available
Toxicity	Toxicity to fish semi-static test LC50 - Fish - > 440 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates static test NOEC - Daphnia magna (Water flea) - >= 1.000 mg/l - 48 h (US-EPA) Toxicity to algae ErC50 - Skeletonema costatum (marine diatom) - > 440 mg/l - 72 h (OECD Test Guideline 201) Toxicity to bacteria static test EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209) Toxicity to fish(Chronic toxicity) semi-static test NOEC - Poecilia reticulata (guppy) - 10 mg/l - 124 d Remarks: (ECHA) Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity) semi-static test NOEC - Daphnia magna (Water flea) - 7,5 mg/l - 21 d Remarks: (ECHA)
Bioaccumulative potential	Bioaccumulation - 7 d at 25 °C - 53,11 mg/l(sodium bromide) Bioconcentration factor (BCF): 0,23
Toxicity to fish	Semi-static test LC50 - Fish - > 440 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Static test NOEC - Daphnia magna (Water flea) - >= 1.000 mg/l - 48 h (US-EPA)
Toxicity to algae	ErC50 - Skeletonema costatum (marine diatom) - > 440 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	Static test EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)
Eco Toxicity	Not Available
Toxicity to fish(Chronic toxicity)	Semi-static test NOEC - Poecilia reticulata (guppy) - 10 mg/l - 124 d Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	Semi-static test NOEC - Daphnia magna (Water flea) - 7,5 mg/l - 21 d Remarks: (ECHA)
COD and BOD 5	Not Available
Products Biodegradation:	NA
Mobility in soil	No Information available
Results of PBT and vPvB 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.
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.
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.
Other adverse effects	No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods	NA
Contaminated packaging	NA
Waste treatment Method	See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14. TRANSPORT INFORMATION

UN number	ADR/RID: - IMDG: - IATA: -
UN proper shipping name	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods
Transport hazard class(es)	ADR/RID: - IMDG: - IATA: -
Packaging group	ADR/RID: - IMDG: - IATA: -
Environmental hazards	ADR/RID: No IMDG Marine Pollutant: No IATA: No
Special precautions for user	No data available
Further information	Not classified as dangerous in the meaning of transport regulations.
Transport in bulk according to IMO instruments	No data available

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations specific for the product in question	NA
National legislation	NA
DSCL (EEC)	NA
Other regulations	Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out

16. OTHER INFORMATION AND DISCLAIMER

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.
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PALLADIUM ACETATE RXSOL-60-6605-160
 PALLADIUM HYDROXIDE 20% ON CHARCOAL RXSOL-60-6605-163
 PALLADIUM NITRATE 44% PD content RXSOL-60-6605-164
 PALLADIUM SPONGE 99.9% POWDER RXSOL-60-6605-165
 PALLADIUM CALCIUM CARBONATE 10% pd RXSOL-60-6605-166
 PARAFFIN WAX 58 60C BLOCK BRICKS RXSOL-60-6605-180
 P DIMETHYL AMINO BENZALDEHYDE AR RXSOL-60-6605-192
 P DIMETHYL AMINO CINNAMALDEHYDE AR RXSOL-60-6605-193
 PEPTONE BACTERIOLOGICAL GRANULAR RXSOL-60-6605-197
 PETROLEUM ETHER 100-2000 C FOR SYNTHESIS RXSOL-60-6605-205
 PHENOL RED INDICATOR SOLUTION RXSOL-60-6605-215
 PHENOLDISULPHONIC ACID SOLUTION 25% RXSOL-60-6605-216
 PHENOLPHTHALEIN INDICATOR RXSOL-60-6605-218
 PHENYL CHLOROFORMATE FOR SYNTHESIS RXSOL-60-6605-219
 PHENYL HYDRAZINE AR RXSOL-60-6605-220
 PHENYL HYDRAZINE FOR SYNTHESIS RXSOL-60-6605-221
 PHENYL HYDRAZINE HYDROCHLORIDE AR RXSOL-60-6605-223
 PHENYL MERCURY ACETATE FOR SYNTHESIS RXSOL-60-6605-224
 PHENYL PHOSPHATE DISODIUM SALT AR RXSOL-60-6605-226
 PHENYL TRIMETHYL AMMONIUM CHLORIDE RXSOL-60-6605-227
 PHLOXIN B FOR MICROSCOPY RXSOL-60-6605-229
 PHTHALAMIDE FOR SYNTHESIS RXSOL-60-6605-237
 PHTHALIC ACID AR RXSOL-60-6605-238
 PHTHALIC ACID FOR SYNTHESIS RXSOL-60-6605-239
 PHTHALIC ANHYDRIDE FOR SYNTHESIS RXSOL-60-6605-249
 PHTHALIDE FOR SYNTHESIS RXSOL-60-6605-250
 PHTHALIMIDE FOR SYNTHESIS RXSOL-60-6605-251
 PICRIC ACID SOLUTION AR 1.2% RXSOL-60-6605-256
 PIPERAZINE Anhydrous 98% RXSOL-60-6605-257
 PIPERAZINE Anhydrous 98% RXSOL-60-6605-257
 PIPES BUFFER piperazine NN-Bis-2-Ethene Sulfonic acid RXSOL-60-6605-260
 PLATINIUM OXIDE Pt 80% RXSOL-60-6605-261
 POLYETHYLENE GLYCOL 600 RXSOL-60-6605-269
 POLYVINYL PYRROLIDONE PVP RXSOL-60-6605-241
 PONCEAU S FOR ELECTROPHORESIS RXSOL-60-6605-242
 POPOP Scintillation Grade 1 4-bis(5-phenyloxaza-2-yl) benzene RXSOL-60-6605-243
 POPSO BUFFER FOR BIOCHEMISTRY RXSOL-60-6605-244
 POTASSIUM ACETATE AR RXSOL-60-6605-245
 POTASSIUM ACETATE LR RXSOL-60-6605-246
 SODAMIDE RXSOL-60-6605-451
 SODIUM ACETATE TRIHYDRATE AR RXSOL-60-6605-462
 SODIUM ARSENITE SOLUTION AR 0.1N N10 RXSOL-60-6605-468
 SODIUM BENZOATE AR RXSOL-60-6605-472
 SODIUM BISELENITE Sodium Hydrogen Selenite RXSOL-60-6605-473
 SODIUM BROMATE LR RXSOL-60-6605-481

SODIUM BROMIDE AR RXSOL-60-6605-482
SODIUM BROMIDE LR RXSOL-60-6605-483
SODIUM CHLORIDE SOLUTION 85% wv RXSOL-60-6605-488
SODIUM CHROMATE TETRAHYDRATE LR RXSOL-60-6605-490
SODIUM DI CHLOROISOCYANURATE RXSOL-60-6605-495
SODIUM HYDROXIDE SOLUTION IN 1M N1 RXSOL-60-6605-519
SODIUM LAURYL SULPHATE AR 99% RXSOL-60-6605-529
SODIUM LAURYL SULPHATE POWDER LR RXSOL-60-6605-531
SODIUM META BORATE TETRAHYDRATE LR RXSOL-60-6605-534
SODIUM METHOXIDE AR RXSOL-60-6605-535
SODIUM METHOXIDE POWDER LR RXSOL-60-6605-536
SODIUM MOLYBDATE AR DIHYDRATE RXSOL-60-6605-537
SODIUM NITRITE AR RXSOL-60-6605-541
SODIUM NITRITE LR RXSOL-60-6605-542
SODIUM NITRO PRUSIDE AR RXSOL-60-6605-543
SODIUM NITRO PRUSIDE LR RXSOL-60-6605-544
SODIUM OXALATE AR RXSOL-60-6605-545
SODIUM PERBORATE TRIHYDRATE PURE RXSOL-60-6605-548
SODIUM PER CARBONATE GRANULAR RXSOL-60-6605-549
SODIUM PER CARBONATE TABLET RXSOL-60-6605-550
SODIUM PERSULPHATE AR RXSOL-60-6605-553
SODIUM PERSULPHATE LR RXSOL-60-6605-554
SODIUM PHOSPHATE DI BASIC DIHYDRATE RXSOL-60-6605-559
SODIUM PYRUVATE RXSOL-60-6605-562
SODIUM SALICYLATE AR RXSOL-60-6605-563
SODIUM SELENITE AR ANHYDROUS RXSOL-60-6605-566
SODIUM SELENITE LR ANHYDROUS RXSOL-60-6605-567
SODIUM SELENITE PENTAHYDRATE LR RXSOL-60-6605-568
SODIUM SILICATE POWDER META HYDRATED RXSOL-60-6605-569
SODIUM SILICATE SOLUTION RXSOL-60-6605-570
SODIUM SILICO FLUORIDE 99% RXSOL-60-6605-571
SODIUM STANNATE LR RXSOL-60-6605-572
SODIUM SULPHATE ANHYDROUS AR RXSOL-60-6605-573
SODIUM SULPHIDE FLAKES AR RXSOL-60-6605-576
SODIUM SULPHITE ANHYDROUS AR RXSOL-60-6605-577