SAFETY DATA SHEETS

According to the UN GHS revision 9

Version: 1.1 Creation Date: July 15, 2019 Revision Date: April 09, 2024

SEC	TION 1: Identification		
1.1	GHS Product identifier		
	Product name	2-Amino-2-Methyl-1-Propanol	
1.2	2 Other means of identification		
	Product number Other names	124-68-5 2-amino-2-methylpropan-1-ol; 1-Propanol, 2-amino-2-methyl-	
1.3	3 Recommended use of the chemical and restrictions on use		
	Identified uses Uses advised against	For laboratory and Industrial use only. no data available	
1.4	Supplier's details		
	Company Address Telephone	Zhongshan Greenrock Technology Co., Ltd. Jinsan Avenue, Sanjiao Town, Zhongshan City, Guangdong Province, China +86-2087066781	
1.5 Emergency phone number			
	Emergency phone number Service hours	+86-2087066781 'Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).	
SEC	TION 2: Hazard identificatio	n	

2.1 Classification of the substance or mixture

Skin irritation, Category 2 Eye irritation, Category 2 Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 3

2.2 GHS label elements, including precautionary statements

Pictogram(s)

Signal word	Warning
Hazard statement(s)	H315 Causes skin irritation
	H319 Causes serious eye irritation
	H412 Harmful to aquatic life with long lasting effects
Precautionary statement(s)	
Prevention	P264 Wash thoroughly after handling.
	P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection/
_	P273 Avoid release to the environment.
Response	P302+P352 IF ON SKIN: Wash with plenty of water/
	P321 Specific treatment (see on this label).
	P332+P317 If skin irritation occurs: Get medical help.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
Storage	none
Disposal	P501 Dispose of contents/container to an appropriate treatment and disposal facility in
	accordance with applicable laws and regulations, and product characteristics at time of disposal.

2.3 Other hazards which do not result in classification

no data available

3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
2-Amino-2-Methyl-1-Propanol	2-amino-2-methylpropanol	124-68-5	204-709-8	100%

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled

Fresh air, rest. Refer for medical attention.

Following skin contact

Remove contaminated clothes. Rinse skin with plenty of water or shower.

Following eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

Following ingestion

Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Refer for medical attention .

4.2 Most important symptoms/effects, acute and delayed

Causes severe irritation. Inhalation may be fatal as a result of spasm, inflammation, and edema of laryns and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. (USCG, 1999)

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Minimum/Potential Fatal Human Dose

3. 3= moderately toxic: probable oral lethal dose (human) 0.5-5 g/kg, between 1 oz & 1 pint (or 1 lb) for 70 kg person (150 lb).

Absorption, Distribution and Excretion

Metabolism and distribution of (3)h-labeled 2-amino-2-methylpropanol was studied in rats receiving normal or choline-deficient diets. tritium appeared in the serum of both groups 30 min after the ip injection but the level was generally lower in the choline-deficient group. rats on the normal diet excreted more of the amino acid in the urine than did the choline-deficient rats in both groups only the unchanged amino acid was excreted. livers from the choline-deficient group had a greater uptake and retention of the label than those from normal rats. most of the label was found in the cytosol of both liver and kidney.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Excerpt from ERG Guide 128 [Flammable Liquids (Water-Immiscible)]: CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient. CAUTION: For mixtures containing alcohol or polar solvent, alcohol-resistant foam may be more effective. SMALL FIRE: Dry chemical, CO2, water spray or regular foam. LARGE FIRE: Water spray, fog or regular foam. Do not use straight streams. Move containers from fire area if you can do it without risk. FIRE INVOLVING TANKS OR CAR/TRAILER LOADS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. (ERG, 2016)

5.2 Specific hazards arising from the chemical

Special Hazards of Combustion Products: Emits toxic fumes during fire conditions. (USCG, 1999)

5.3 Special protective actions for fire-fighters

Use water spray, powder, alcohol-resistant foam, carbon dioxide.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal protection: filter respirator for organic gases and particulates adapted to the airborne concentration of the substance. Sweep spilled substance into covered containers. If appropriate, moisten first to prevent dusting. Carefully collect remainder. Then store and dispose of according to local regulations.

6.2 Environmental precautions

Personal protection: filter respirator for organic gases and particulates adapted to the airborne concentration of the substance. Sweep spilled substance into covered containers. If appropriate, moisten first to prevent dusting. Carefully collect remainder. Then store and dispose of according to local regulations.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use sparkproof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

NO open flames. Above 67°C use a closed system and ventilation. Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibilities

Separated from strong oxidants and strong acids.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

MAK: 3.7 mg/m3, 1 ppm; peak limitation category: II(2); skin absorption (H); pregnancy risk group: C

Biological limit values

no data available

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the riskelimination area.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear safety goggles or eye protection in combination with breathing protection if powder.

Skin protection

Protective gloves.

Respiratory protection

Use local exhaust or breathing protection.

Thermal hazards

no data available

SECTION 9: Physical and chemical properties and safety characteristics

Physical state	Solid. Amorphous solid paste below its melting point (30 - 31 °C).
Colour	White when it is under its solid form and colourless as a liquid above its freezing point (30 - 31°C).
Odour	no data available
Melting point/freezing point	30 °C. Atm. press.:1 atm.
	163.8 °C. Atm. press.:760 mm Hg. Remarks:Extrapolated from vapour pressure measured up to
boiling range	138 °C on an anhydrous 99+ purity sample.;163.4. Atm. press.:760 mm Hg. Remarks:Extrapolated from vapour pressure measured up to 138 °C on an anhydrous sample of ca. 95% purity.
Flammability	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.
Lower and upper explosion limit/flammability limit	no data available
Flash point	82.1 °C. Atm. press.:760 mm Hg.
Auto-ignition temperature	438 °C. Atm. press.:762 mm Hg.
Decomposition temperature	no data available
pH	PH OF 0.1 AQ SOLN 11.3
Kinematic viscosity	dynamic viscosity (in mPa s) = 435. Temperature:40°C. Remarks:The temperature of 40 °C was chosen in order to be above the melting point of the product. (see end point for melting point in 4.2).
Solubility	MISCIBLE WITH WATER; SOL IN ALCOHOLS
Partition coefficient n-octanol/water	log Pow = Ca0.63. Temperature:20 °C. Remarks:Product is basic because it contains a primary amine group.
Vapour pressure	0.45 hPa. Temperature:20 °C. Remarks:This value was determined on the neat cosmetic grade 2- amino-2-methylpropanol (commercial name: AMP-ULTRA PC 1000, Neutralizing Amine).
Density and/or relative density	0.922 g/cm ³ . Temperature:40 °C.;0.953 g/cm ³ . Temperature:25 °C.
Relative vapour density	3 (vs air)
Particle characteristics	no data available

10.1 Reactivity

Decomposes on burning. This produces toxic fumes including nitrogen oxides. The solution in water is a medium strong base. Reacts with strong acids and strong oxidants

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

2-AMINO-2-METHYL-1-PROPANOL is an organic compound with both amine and alcohol substituents. Amines are chemical bases. They neutralize acids to form salts plus water. These acid-base reactions are exothermic. The amount of heat that is evolved per mole of amine in a neutralization is largely independent of the strength of the amine as a base. Amines may be incompatible with isocyanates, halogenated organics, peroxides, phenols (acidic), epoxides, anhydrides, and acid halides. Flammable gaseous hydrogen is generated by amines in combination with strong reducing agents, such as hydrides.

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

Acute toxicity

- Oral: no data available .
- Inhalation: no data available
- Dermal: LD50 rabbit (male/female) > 2 000 mg/kg bw. ٠

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

The substance is corrosive to the eyes. The substance is severely irritating to the skin. The aerosol is irritating to the respiratory tract.

STOT-repeated exposure

Ingestion may cause effects on the liver.

Aspiration hazard

No indication can be given about the rate at which a harmful concentration of this substance in the air is reached on evaporation at 20°C.

SECTION 12: Ecological information

Toxicity 12.1

- Toxicity to fish: LC50 Lepomis macrochirus 190 mg/L 96 h.

- Toxicity to daphnia and other aquatic invertebrates: LC50 Crangon crangon 241 mg/L 24 h. Toxicity to algae: EC50 Scenedesmus sp. 402 mg/L 72 h. Toxicity to microorganisms: EC50 activated sludge of a predominantly domestic sewage 342.9 mg/L 3 h. Remarks:Respiration rate.

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

14.1 UN Number

	ADR/RID: Not dangerous goods. (For reference only, please check.)	IMDG: Not dangerous goods. (For reference only, please check.)	IATA: Not dangerous goods. (For reference only, please check.)
14.2	UN Proper Shipping Name		
	ADR/RID: Not dangerous goods. (For reference only, please check.)	IMDG: Not dangerous goods. (For reference only, please check.)	IATA: Not dangerous goods. (For reference only, please check.)
14.3	Transport hazard class(es)		
	ADR/RID: Not dangerous goods. (For reference only, please check.)	IMDG: Not dangerous goods. (For reference only, please check.)	IATA: Not dangerous goods. (For reference only, please check.)
14.4	Packing group, if applicable		
	ADR/RID: Not dangerous goods. (For reference only, please check.)	IMDG: Not dangerous goods. (For reference only, please check.)	IATA: Not dangerous goods. (For reference only, please check.)
14.5	Environmental hazards		
	ADR/RID: No	IMDG: No	IATA: No
14.6	Special precautions for user no data available		

14.7 Transport in bulk according to IMO instruments

no data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
2-amino-2-methylpropanol	2-amino-2-methylpropanol	124-68-5	204-709-8
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.
Korea Existing Chemicals List (KECL)			Listed.

SECTION 16: Other information

Information on revision

Creation Date	July 15, 2019
Revision Date	April 09, 2024

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- . IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50% •
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm IARC International Agency for Research on Cancer, website: http://www.iarc.fr/ •
- .
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: .
- .
- .
- http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp .
- ECHA European Chemicals Agency, website: https://echa.europa.eu/ •

Other Information

Health effects of exposure to the substance have not been investigated adequately.

Any questions regarding this SDS, Please send your inquiry to export@greenrockchem.com

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.