

Safety Data Sheet per OSHA HazCom 2012

Produ	ification <sub>Ict identifier</sub> Ict name: <b>2-Aminoisobutyric acid methyl ester hydrochloride</b>
<b>CAS</b> 15028	number: H26550 Number: 41-8 ant identified uses of the substance or mixture and uses advised against. fied use: SU24 Scientific research and development
Detai	ls of the supplier of the safety data sheet facturer/Supplier:
Thern 30 Bo Ward Tel: 8	esan no Fisher Scientific Chemicals, Inc. nd Street Hill, MA 01835-8099 00-322-4757 : tech@alfa.com
www.a Inforn Emer	alfa.com nation Department: Health, Safety and Environmental Department gency telephone number:
Call C Durinę	arechem 24 at +44 (0) 1865 407333 g normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
<b>Class</b> The s	rd(s) identification ification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) ubstance is not classified according to the Globally Harmonized System (GHS). ds not otherwise classified No information known.
Label GHS Hazai Signa Hazai WHM Class	elements label elements Not applicable d pictograms Not applicable I word Not applicable d statements Not applicable IS classification Not controlled ification system
HMIS (Haza HEALTH	ratings (scale 0-4) rdous Materials Identification System) Health (acute effects) = 1
REACTIVI Other	□ Flammàbility = 1 ´ ™□ Physical Hazard = 1 ; hazards
PBT:	<b>Its of PBT and vPvB assessment</b> Not applicable. : Not applicable.
Chem CAS#	position/information on ingredients nical characterization: Substances Description: 3-41-8 2-Aminoisobutyric acid methyl ester hydrochloride
	-aid measures
After Suppl Seek	iption of first aid measures inhalation y fresh air. If required, provide artificial respiration. Keep patient warm. immediate medical advice.
Imme Seek	skin contact diately wash with water and soap and rinse thoroughly. immediate medical advice.
After Inforr	eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. swallowing Seek medical treatment. nation for doctor important symptoms and effects, both acute and delayed No further relevant information available.
	important symptoms and effects, both acute and delayed No further relevant information available. ation of any immediate medical attention and special treatment needed No further relevant information available.
Exting Suita Speci	f <b>ighting measures</b> guishing media ble extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. al hazards arising from the substance or mixture product is involved in a fire, the following can be released:
Carbo Nitrog Hydro <b>Advio</b> <b>Prote</b> Wear	n monoxide and carbon dioxide en oxides (NOx) gen chloride (HCl) e for firefighters ctive equipment: self-contained respirator. fully protective impervious suit.
	dental release measures
<b>Perso</b> Wear	nal precautions, protective equipment and emergency procedures protective equipment. Keep unprotected persons away.
Envir Metho	e adequate ventilation onmental precautions: Do not allow material to be released to the environment without proper governmental permits. ods and material for containment and cleaning up: Pick up mechanically. Intion of secondary hazards: No special measures required.

(Contd. of page 1)

Product name: 2-Aminoisobut	tyric acid met	thyl ester l	hydrochloride
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Reference to other sections

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## 7 Handling and storage

## Handling

Frecautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers.

Information about protection against explosions and fires: No information known.

Conditions for safe storage, including any incompatibilities

Storage Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

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

### 8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data

### Exposure controls

Personal protective equipment

The usual protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands:

Impervious gloves Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses

Body protection: Protective work clothing.

### 9 Physical and chemical properties

Information on basic physical and ch General Information Appearance:					
Form:	Crystalline powder				
Color:	White				
Odor:	Not determined				
Odor threshold:	Not determined.				
pH-value:	Not applicable.				
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	185 °C (365 °F) (dec) Not determined Not determined				
Flash point:	Not applicable				
Flammability (solid, gaseous)	Not determined.				
Ignition temperature:	Not determined				
Decomposition temperature.					
Decomposition temperature:	Not determined				
Auto igniting:	Not determined.				
Danger of explosion:	Product does not present an explosion hazard.				
Explosion limits:					
Lower:	Not determined				
Upper:	Not determined				
Vapor pressure:	Not applicable.				
Density:	Not depiremined				
	Not determined				
Relative density					
Vapor density	Not applicable.				
Evaporation rate	Not applicable.				
Solubility in / Miscibility with					
Water:	Not determined				
Partition coefficient (n-octanol/water)	: Not determined.				
Viscosity:					
dynamic:	Not applicable.				
kinematic:	Not applicable.				
Other information	No further relevant information available.				

### 10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. **Conditions to avoid** No further relevant information available. **Incompatible materials:** Oxidizing agents

(Contd. on page 3)

# Product name: 2-Aminoisobutyric acid methyl ester hydrochloride (Contd. of page 2) Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCI) 11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 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. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information Not a hazardous material for transportation. **UN-Number** DOT, IMDG, IATA None UN proper shipping name DOT, IMDG, IATA None Transport hazard class(es) DOT, ADR, IMDG, IATA Class None Packing group DOT. IMDG. IATA None Environmental hazards: Not applicable. Special precautions for user Not applicable Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: Not dangerous according to the above specifications. DOT Marine Pollutant (DOT): No 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Signal word Not applicable Hazard statements Not applicable National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the

market and use must be observed. Substance is not listed.

(Contd. on page 4)

## Product name: 2-Aminoisobutyric acid methyl ester hydrochloride

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	(Contd. of page 3)
16 Other information	la hilitu af dhia

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

conformance with this Material Safety Data Sheet, or in combine Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UD50: Lethal dose, 50 percent UD50: Lethal dose, 50 percent VPW: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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