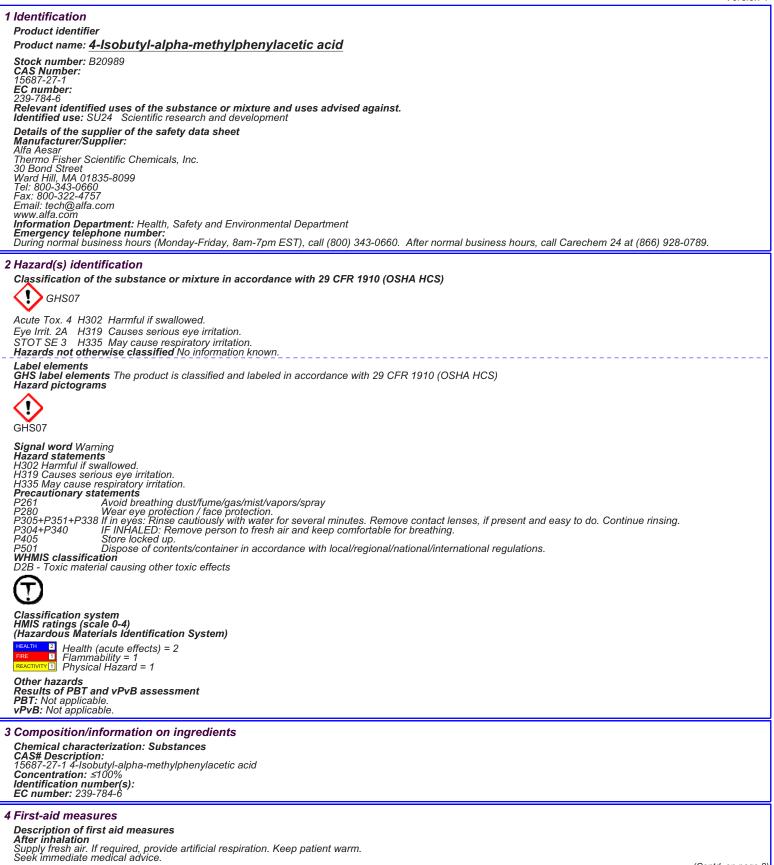




Page 1/4 Printing date 01/09/2018 Revision date 01/08/2018 Version 1



(Contd. of page 1)

Product name: 4-Isobutyl-alpha-methylphenylacetic acid

After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Harmful if swallowed. Causes serious eye irritation. Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Or how meanwide and earthen diavide. Carbon monoxide and carbon dioxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Ensure adequate ventilation Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed. PAC-3: Substance is not listed.

7 Handling and storage

Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data

Exposure controls Personal protective equipment General protective and hygienic measures

General 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. Avoid contact with the eyes. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition.

The protective gloves prior to each use for their proper condition. 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. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) >480

Glove thickness: 0.11 mm Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.

USA (Contd. on page 3)



Product name: 4-IsobutyI-alpha-methylphenylacetic acid

(Contd. of page 2)

	(Contd. of page	
9 Physical and chemical properties	;	
Information on basic physical and ch General Information		
Appearance: Form:	Powder	
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: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	75-78 °C (167-172 °F) 157 °C (315 °F) (4mm) Not determined Not determined Not determined Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density	Not determined Not determined Not applicable. Not determined Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Insoluble	
Partition coefficient (n-octanol/water)		
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products:	nts	
11 Toxicological information		
Information on toxicological effects Acute toxicity: Harmful if swallowed. The Registry of Toxic Effects of Chemic:	al Substances (RTECS) contains acute toxicity data for this substance.	
LD/LC50 values that are relevant for classification:		
Oral LD50 636 mg/kg (rat)		
Skin irritation or corrosion: May cause Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kno Germ cell mutagenicity: The Registry Carcinogenicity: No classification data	rious eve irritation.	
Reproductive toxicity: The Registry of	Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.	
Specific target organ system toxicity - repeated exposure: No effects known.		
Specific target organ system toxicity - single exposure: May cause respiratory irritation.		
Aspiration hazard: No effects known. Subacute to chronic toxicity: The Reg Additional toxicological information:	istry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. 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 info Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Avoid transfer into the e Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva	elevant information available. mation available. nvironment. t	
13 Disposal considerations		
Waste treatment methods	or national regulations to ensure proper disposal.	

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

USA (Contd. on page 4)

Product name: 4-Isobutyl-alpha-methylphenylacetic acid

(Contd.	of	page	3)

	(Contd. of page 3)
4 Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, ADR, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 Transport/Additional information:	and the IBC Code Not applicable.
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	Not applicable
5 Regulatory information	
Safety, health and environmental regulations/legislation : GHS label elements The product is classified and labeled in Hazard pictograms GHS07	specific for the substance or mixture accordance with 29 CFR 1910 (OSHA HCS)
P405 Store locked up. P501 Dispose of contents/container in accordar. National regulations All components of this product are listed in the U.S. Environn All components of this product are listed on the Canadian Do SARA Section 313 (specific toxic chemical listings) Subsi California Proposition 65 Prop 65 - Chemicals known to cause cancer 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, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female 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. Prop 65 - Developmental toxicity, male Substance is not listed. Substance of Very High Concern (SVHC) according to the	several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. and keep comfortable for breathing. note with local/regional/national/international regulations. mental Protection Agency Toxic Substances Control Act Chemical substance Inventory. mestic Substances List (DSL). tance is not listed. * not listed. * listed. sted. cally qualified individuals. * drug or cosmetic, our products are not approved or suitable for such use or for human consumption. e REACH Regulations (EC) No. 1907/2006. Substance is not listed.
Employers should use this information only as a supplement information to ensure proper use and protect the health and s conformance with this Safety Data Sheet, or in combination v Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date revision date and	to other information gathered by them, and should make independent judgement of suitability of this safety of employees. This information is furnished without warranty, and any use of the product not in with any other product or process, is the responsibility of the user. version number are in the header of each page. te (European Agreement concerning the International Carriage of Dangerous Goods by Road) USA