

Safety Data Sheet per OSHA HazCom 2012

1 Identification

## Product identifier ntonoio . . . .

| Product name: 2-Methyl-4-pentenoic acid   |
|---|
| Stock number: A11297, L06143<br>CAS Number:   |
| 1575-74-2<br>EC number:   |
| 216-404-7<br>Relevant identified uses of the substance or mixture and uses advised against.<br>Identified use: SU24 Scientific research and development   |
| Details of the supplier of the safety data sheet<br>Manufacturer/Supplier:  |
| Thermode Scientific Chemicals, Inc.   |
| Alia Aesar<br>Thermo Fisher Scientific Chemicals, Inc.<br>30 Bond Street<br>Ward Hill, MA 01835-8099<br>Tel: 800-343-0660<br>Fax: 800-322-4757<br>Email: tech@alfa.com  |
| Fex: 800-343-0000<br>Fax: 800-322-4757<br>Email: tech@alfa.com  |
| www.alfa.com<br>Information Department: Health, Safety and Environmental Department   |
| Emergency telephone number:<br>During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.   |
| 2 Hazard(s) identification  |
| Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)  |
| GHS05 Corrosion   |
| Skin Corr. 1C H314 Causes severe skin burns and eye damage.   |
| Eye Dam. 1 H318 Causes serious eye damage.<br>Hazards not otherwise classified No information known.  |
| Label elements<br>GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)<br>Hazard pictograms   |
|   |
| GHS05   |
| Signal word Danger         Hazard statements         H314 Causes severe skin burns and eye damage.         Precautionary statements         P260       Do not breathe dust/fume/gas/mist/vapours/spray.         P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.         P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       D2B - Toxic material causing other toxic effects         E - Corrosive material       Corrosive material |
|   |
| Classification system<br>HMIS ratings (scale 0-4)<br>(Hazardous Materials Identification System)  |
| HEALTH     I     Health (acute effects) = 2       IRE     I       REACTIVITY     Physical Hazard = 1  |
| Other hazards<br>Results of PBT and vPvB assessment<br>PBT: Not applicable.   |
| vPvB: Not applicable.   |
| 3 Composition/information on ingredients<br>Chemical characterization: Substances   |
| CAS# Description:   |
| 1575-74-2 2-Methyl-4-pentenoic acid<br>Identification number(s):<br>EC number: 216-404-7  |
| 4 First-aid measures  |
| Description of first aid measures<br>General information Immediately remove any clothing soiled by the product.   |
| After inhalation  |
| Supply fresh air. If required, provide artificial respiration. Keep patient warm.<br>Seek immediate medical advice.<br>After skin contact   |
| Immediately wash with water and soap and rinse thoroughly.<br>Seek immediate medical advice.  |
| (Contd. on page 2<br>USA  |

## Product name: 2-Methyl-4-pentenoic acid

| Froduct mame. <b>2-imetry1-4-permento</b>   |  |                    |
|---|--|--------------------|
| After swallowing Seek medical tréatm<br>Information for doctor<br>Most important symptoms and effec<br>Causes severe skin burns.<br>Causes serious eye damage.  |  | (Contd. of page 1) |
| 5 Fire-fighting measures<br>Extinguishing media<br>Suitable extinguishing agents Use ca<br>Special hazards arising from the suk<br>If this product is involved in a fire, the f<br>Carbon monoxide and carbon dioxide<br>Advice for firefighters<br>Protective equipment:<br>Wear self-contained respirator.<br>Wear fully protective impervious suit.  | arbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling ex<br>bstance or mixture<br>ollowing can be released:  | posed containers.  |
| Methods and material for containme  | rotected persons away.<br>allow material to be released to the environment without proper governmental permits.<br>Int and cleaning up:<br>Ind, diatomite, acid binders, universal binders, sawdust).<br>Paste according to section 13.<br>To special measures required.<br>The nandling equipment   |                    |
| Conditions for safe storage, includir Storage   | ce.<br>t explosions and fires: No information known.<br>ng any incompatibilities<br>oms and receptacles: No special requirements.<br>mmon storage facility:<br>onditions:<br>aled containers.  |                    |
| Control parameters<br>Components with limit values that re<br>Additional information: No data<br>Exposure controls<br>Personal protective equipment<br>General protective and hygienic mea<br>The usual precautionary measures for<br>Keep away from foodstuffs, beverages<br>Remove all soiled and contaminated cl<br>Wash hands before breaks and at the<br>Avoid contact with the eyes and skin.<br>Maintain an ergonomically appropriate<br>Breathing equipment: Use suitable re<br>Protection of hands:<br>Impervious dloves | of technical systems:<br>d designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute<br>equire monitoring at the workplace: Not required.<br>asures<br>handling chemicals should be followed.<br>and feed.<br>lothing immediately.<br>end of work.<br>working environment.<br>espirator when high concentrations are present.<br>ise for their proper condition.<br>ly depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. | 2                  |
| 9 Physical and chemical propertie   |  |                    |
| Information on basic physical and cl<br>General Information   | hemical properties   |                    |
| Appearance:<br>Form:  | Liquid   |                    |
| Color:<br>Odor:<br>Odor:  | Cólorless<br>Characteristic<br>Not determine al  |                    |
| Odor threshold:<br>pH-value:  | Not determined. Not determined.  |                    |
| <b>F</b>  |  | (Contd. on page 3) |
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## Product name: 2-Methyl-4-pentenoic acid

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| Product name: 2-Methyl-4-pentenoid   | c acid  |                    |
|--|---|--------------------|
|  |   | (Contd. of page 2) |
| Change in condition<br>Melting point/Melting range:<br>Boiling point/Boiling range:<br>Sublimation temperature / start:  | Not determined<br>75 °C (167 °F) (4mm Hg)<br>Not determined   |                    |
| Flash point:<br>Flammability (solid, gaseous)<br>Ignition temperature:<br>Decomposition temperature:<br>Auto igniting:   | 107 °C (225 °F)<br>Not determined.<br>Not determined<br>Not determined<br>Not determined.   |                    |
| Danger of explosion:<br>Explosion limits:<br>Lower:<br>Upper:<br>Vapor pressure:<br>Density at 20 °C (68 °F):  | Product does not present an explosion hazard.<br>Not determined<br>Not determined<br>Not determined<br>0.95 g/cm³ (7.928 lbs/gal)   |                    |
| Relative density<br>Vapor density<br>Evaporation rate<br>Solubility in / Miscibility with<br>Water:  | Not determined.<br>Not determined.<br>Not determined.<br>Slightly soluble   |                    |
| Partition coefficient (n-octanol/water)<br>Viscosity:<br>dynamic:<br>kinematic:<br>Other information   | : Not determined.<br>Not determined.<br>Not determined.<br>No further relevant information available.   |                    |
|  |   |                    |
| 10 Stability and reactivity<br>Reactivity No information known.<br>Chemical stability Stable under recom<br>Thermal decomposition / conditions I<br>Possibility of hazardous reactions No<br>Conditions to avoid No further relevan<br>Incompatible materials:<br>Oxidizing agents<br>Bases<br>Hazardous decomposition products:   | to be avoided: Decomposition will not occur it used and stored according to specifications.<br>) dangerous reactions known<br>t information available.  |                    |
| LD/LC50 values that are relevant for or<br>Skin irritation or corrosion: Causes so<br>Eye irritation or corrosion: Causes so<br>Sensitization: No sensitizing effects kn<br>Germ cell mutagenicity: No effects knov<br>Carcinogenicity: No classification data<br>Reproductive toxicity: No effects knov<br>Specific target organ system toxicity<br>Specific target organ system toxicity<br>Aspiration hazard: No effects known.<br>Subacute to chronic toxicity: No effects   | evere skin burns.<br>rious eye damage.<br>own.<br>on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.<br>vn.<br><b>- repeated exposure:</b> No effects known.<br><b>- single exposure:</b> No effects known. |                    |
| 12 Ecological information<br>Toxicity<br>Aquatic toxicity: No further relevant ini<br>Persistence and degradability No further<br>Bioaccumulative potential No further i<br>Mobility in soil No further relevant infor<br>Additional ecological information:<br>General notes:<br>Do not allow material to be released to to<br>Do not allow undiluted product or large of<br>Avoid transfer into the environment.<br>Results of PBT and vPvB assessment<br>PBT: Not applicable.<br>vPvB: Not applicable.<br>Other adverse effects No further relevant | rmation available.<br>the environment without proper governmental permits.<br>quantities to reach ground water, water course or sewage system.<br>t   |                    |
| 13 Disposal considerations<br>Waste treatment methods<br>Recommendation Consult state, local of<br>Uncleaned packagings:<br>Recommendation: Disposal must be m   | or national regulations to ensure proper disposal.<br>nade according to official regulations.   |                    |
| 14 Transport information   |   |                    |
| UN-Number<br>DOT, IMDG, IATA   | UN3265  |                    |
| UN proper shipping name<br>DOT<br>IMDG, IATA   | Corrosive liquid, acidic, organic, n.o.s. (2-Methyl-4-pentenoic acia<br>CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2-Methyl-4-pe  |                    |
|  |   | (Contd. on page 4) |

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|  | Reviewed on 07/17/200  |
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| roduct name: 2-Methyl-4-pentenoic acid   |  |
|  | (Contd. of page  |
| Transport hazard class(es)   |  |
| DOT  |  |
|  |  |
|  |  |
| Class<br>Label   | 8 Corrosive substances.  |
| Class  | 8 (C3) Corrosive substances  |
| Label<br>IMDG, IATA  | 8  |
| (D)  |  |
|  |  |
| Class<br>Label   | 8 Corrosive substances.<br>8   |
|  | 0  |
| Packing group<br>DOT, IMDG, IATA   |  |
| Environmental hazards:   | Not applicable.  |
| Special precautions for user<br>Segregation groups   | Warning: Corrosive substances<br>Acids   |
| Transport in bulk according to Annex II of MARPOL73/78 and the   | IBC Code Not applicable.   |
| Transport/Additional information:  |  |
| DOT<br>Marine Pollutant (DOT):   | No   |
| UN "Model Regulation":   | UN3265, Corrosive liquid, acidic, organic, n.o.s. (2-Methyl-4-pentenoic acid), 8, III  |
|  |  |
| GHS05<br>Signal word Danger<br>Hazard statements<br>H314 Causes severe skin burns and eye damage.<br>Precautionary statements<br>P260 Do not breathe dust/fume/gas/mist/vapours/spray.<br>P303+P361+P353 If on skin (or hair): Take off immediately all conternal<br>P305+P351+P338 IF IN EYES: Binse cautiously with water for several<br>P305+P351+P338 IF IN EYES:  | inated clothing. Rinse skin with water/shower.<br>I minutes. Remove contact lenses, if present and easy to do. Continue rinsing  |
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