



1 Identification Product identifier Product name: 2-Isopropylaniline Stock number: A14671, L01580 CAS Number: 643-28-7 EC number: 211-397-7 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet Details of the supplier of the safety da Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number: 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) ! GHS07 Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known. Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms !) GHS07 Signal word Warning Hazard statements H302+H312 Harmful if swallowed or in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. H315 H319 H335 Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 T Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 2 Health (acute effects) = 2 
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 Image: Sectivity Indext

 Flammability = 1

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 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 643-28-7 2-Isopropylaniline Identification number(s): EC number: 211-397-7 4 First-aid measures

**Description of first aid measures After inhalation** Supply fresh air. If required, provide artificial respiration. Keep patient warm.

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(Contd. of page 1) Seek immediate medical advice. 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 Causes skin irritation Harmful if swallowed. Causes serious eye irritation. Harmful in contact with skin. May cause respiratory 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: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) 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 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. **Prevention of secondary hazards:** Keep away from ignition sources. **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 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 in the dark. Store in the dark. Do not store together with acids. Store away from oxidizing agents. Store away from acid chlorides. Store away from acid anhydrides. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from exposure to light. 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 Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. De not include and contaminated contained for the followed. Do not inhale dust / smoke / mist. 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 multi-purpose combination (US) or type ABEK (EN 14387) 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 such as NIOSH (USA) or CEN (EU).

Protection of hands: 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.

| acc. to USHA HCS   |   | Printing date 05/11/2016<br>Revision date 05/10/2016 |
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| (Contd. o<br>Penetration time of glove material (in minutes) Not determined<br>Eye protection: Safety glasses<br>Body protection: Protective work clothing.  |   | (Contd. of page 2)                                   |
| 9 Physical and chemical properties   |   |  |
| Information on basic physical and che  | emical properties   |  |
| General Information<br>Appearance:   | 1 tours to  |  |
| Form:<br>Color:  | Liquid<br>Dark yellow   |  |
| Odor:<br>Odor threshold:   | Not determined<br>Not determined.   |  |
| pH-value:  | Not determined.   |  |
| Change in condition<br>Melting point/Melting range:<br>Boiling point/Boiling range:<br>Sublimation temperature / start:  | Not determined<br>214-216 °C (417-421 °F) (10mm Hg)<br>Not determined   |  |
| Flash point:<br>Flammability (solid, gaseous)<br>Ignition temperature:<br>Decomposition temperature:   | 95 °C (203 °F)<br>Not applicable.<br>Not determined<br>Not determined   |  |
| Auto igniting:   | Not determined.   |  |
| Danger of explosion:<br>Explosion limits:  | Product does not present an explosion hazard.   |  |
| Lower:<br>Upper:   | Not determined<br>Not determined  |  |
| Vapor pressure:<br>Density at 20 °C (68 °F):   | Not determined<br>0.966 g/cm <sup>3</sup> (8.061 lbs/gal)   |  |
| Relative density `<br>Vapor density  | Not determined.   |  |
| Evaporation rate<br>Solubility in / Miscibility with   | Not determined.   |  |
| Water:<br>Partition coefficient (n-octanol/water):   | Not miscible or difficult to mix<br>Not determined.   |  |
| Viscosity:<br>dynamic:   | Not determined.   |  |
| kinematic:<br>Other information  | Not determined.<br>No further relevant information available.   |  |
| 10 Stability and reactivity<br>Reactivity No information known.  |   |  |
| Chemical stability Stable under recommended storage conditions.<br>Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.<br>Possibility of hazardous reactions Reacts with strong oxidizing agents<br>Conditions to avoid No further relevant information available.<br>Incompatible materials: |   |  |
| Acids<br>Oxidizing agents<br>Acid chlorides  |   |  |
| Acid anhydrides<br>Light<br><b>Hazardous decomposition products:</b><br>Carbon monoxide and carbon dioxide   |   |  |
| Nitrogen oxides  |   |  |
| 11 Toxicological information<br>Information on toxicological effects<br>Acute toxicity:<br>Harmful if swallowed.   |   |  |
| The Registry of Toxic Effects of Chemica<br>LD/LC50 values that are relevant for c   | al Substances (RTECS) contains acute toxicity data for this substance.  |  |
| Oral LD50 1180 mg/kg (rat)   |   |  |
| Skin irritation or corrosion: Causes sk<br>Eye irritation or corrosion: Causes se<br>Sensitization: No sensitizing effects kno<br>Germ cell mutagenicity: No effects kno   | ious eye irritation.<br>wn.<br>wn.  |  |
| Reproductive toxicity: No effects know<br>Specific target organ system toxicity<br>Specific target organ system toxicity   | on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACG<br>n.<br>• <b>repeated exposure:</b> No effects known.<br>• <b>single exposure:</b> May cause respiratory irritation. | λΉ.  |
| Aspiration hazard: No effects known.<br>Subacute to chronic toxicity:<br>The Registry of Toxic Effects of Chemica<br>Behavioral - somnolence (general depre  | al Substances (RTECS) reports the following effects in laboratory animals: ssed activity).  |  |
| Lungs, Thorax, or Respiration - cyanosis<br>Blood - changes in spleen.   | To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.   |  |

Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

## 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.

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|--|--|--|
| Additional ecological information:<br>General notes:<br>Do not allow material to be released to the environment without µ<br>Do not allow undiluted product or large quantities to reach groun<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 information available.  | d water, water course or sewage system.  |  |
| 13 Disposal considerations<br>Waste treatment methods<br>Recommendation Consult state, local or national regulations to<br>Uncleaned packagings:<br>Recommendation: Disposal must be made according to official  |  |  |
| 14 Transport information<br>UN-Number  |  |  |
| DOT, ADN, IMDG, IATA<br>UN proper shipping name<br>DOT, ADN, IMDG, IATA  | Not applicable Not applicable  |  |
| Transport hazard class(es)<br>DOT, ADR, ADN, IMDG, IATA<br>Class   | Not applicable   |  |
| Packing group<br>DOT, IMDG, IATA   | Not applicable   |  |
| Environmental hazards:   | Not applicable.  |  |
| Special precautions for user<br>Transport in bulk according to Appen II of MARPOL 73/78 and  | Not applicable.  |  |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information:  |  |  |
| DOT  |  |  |
| Marine Pollutant (DOT):<br>UN "Model Regulation":  | No   |  |
| P304+P340 IF INHALED: Remove victim to fresh air and I<br>P405 Store locked up.  | spray.<br>e protection/face protection.<br>everal minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>keep at rest in a position comfortable for breathing.  |  |
| National regulations<br>All components of this product are listed in the U.S. Environment<br>All components of this product are listed on the Canadian Non-D<br>SARA Section 313 (specific toxic chemical listings) Substance<br>California Proposition 65<br>Prop 65 - Chemicals known to cause cancer Substance is not<br>Prop 65 - Developmental toxicity Substance is not listed.<br>Prop 65 - Developmental toxicity, female Substance is not listed<br>Information about limitation of use: For use only by technically<br>Other regulations, limitations and prohibitive regulations<br>Substance of Very High Concern (SVHC) according to the Ri | ce is not listed.<br>ed.<br>I.<br>y qualified individuals.<br>EACH Regulations (EC) No. 1907/2006. Substance is not listed.<br>nnex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the   |  |
| information to ensure proper use and protect the health and safe<br>conformance with this Material Safety Data Sheet, or in combina<br><b>Department issuing SDS:</b> Global Marketing Department<br><b>Date of preparation / last revision</b> 05/11/2016 / -   | other information gathered by them, and should make independent judgement of suitability of this<br>ty of employees. This information is furnished without warranty, and any use of the product not in<br>tion with any other product or process, is the responsibility of the user.<br>par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)<br>uropean Agreement concerning the International Carriage of Dangerous Goods by Road) |  |
| DOT: US Department of Transportation   | (Contd. on page 5)   |  |

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- IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances 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 LD50: Lethal concentration, 50 percent ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IATP: National Toxicology Program (USA) Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irit: 2: Skin corrosion/iritiation, Hazard Category 2 Eye Irit. 2A: Serious eye damage/eye irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity Single exposure, Hazard Category 3

(Contd. of page 4)

USA