



(Contd. on page 2)

Reviewed 011 05/02/2015
1: Identification
Product identifier Product name: N,N-Dimethylacetamide
Stock number: A10924
CAS Number: 127-19-5
EC number: 204-826-4
Index number: 616-011-00-4
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
Manufacturer/Supplier: Alfa Aesar, A Johnson Matthey Company Jebrason Mothey Corples
Johnson Matthey Catalog Company, Inc. 30 Bond Street Ward Hill, MA 01835-8099
Tel: 800-322-4757
Email: tech@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 Classification according to Regulation (EC) No 1272/2008
GHS08 Health hazard
Repr. 1B H360 May damage fertility or the unborn child.
GHS07
Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled.
H227 Combustible liquid.
Classification according to Directive 67/548/EEC or Directive 1999/45/EC
Repr. Cat. 2 R61: May cause harm to the unborn child.
Xn: Harmful
R20/21: Harmful by inhalation and in contact with skin. Information concerning particular hazards for human and environment: Not applicable
Hazards not otherwise classified No information known.
Label elements Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labeled according to the CLP regulation. Hazard pictograms
GHS07 GHS08
Signal word Danger
Hazard statements H227 Combustible liquid.
H312+H332 Harmful in contact with skin or if inhaled. H360 May damage fertility or the unborn child.
Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304-P340 IF INFIALED: Remove person to fresh air and keep confortable for breathing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification B3 - Combustible liquid
D2A - Very toxic material causing other toxic effects
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
(Hazardouš Materials Identification System)
Preading (actual energies) = 2 Preading (actual energies) = 2 ReadTivity[] Physical Hazard = 1

Product name: N,N-Dimethylacetamide

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

3: Composition/information on ingredients

Chemical characterization: Substances CAS# Description: 127-19-5 N,N-Dimethylacetamide Identification number(s): EC number: 204-826-4 Index number: 616-011-00-4

4: First-aid measures Description of first aid measures

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eve 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 No further relevant information available. 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 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil. **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. Open and handle container with care. Information about protection against explosions and fires: Keep ignition sources away. 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. Store away from halocarbons. 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: 127-19-5 N,N-Dimethylacetamide (100.0%) Long-term value: 35 mg/m3, 10 ppm PEL (USA) Skin REL (USA) Long-term value: 35 mg/m³, 10 ppm Skin

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Protection of hands: Impervious gloves Check protective gloves prior to each use for their The selection of suitable gloves not only depends Material of gloves Butyl rubber, BR Penetration time of glove material (in minutes Glove thickness 0.3 mm Eye protection: Safety glasses Body protection: Protective work clothing. 9: Physical and chemical properties Information on basic physical and chemical p General Information Appearance: Form: Liquid Color: Colorles Odor: Ammon Odor: Not dett pH-value: Not dett Change in condition Melting point/Melting range: -20 °C (Boiling point/Boiling range: 165-166	chemicals should be followed. mediately. rk. environment. when high concentrations are present. e: ridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying t tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). esir proper condition. Is on the material, but also on quality. Quality will vary from manufacturer to manufacturer. s) 480
Skiñ; BEI Ever (Canada) Skin; R EV (Canada) Long-term value: 10 ppm Skin; R EV (Canada) Ingredients with biological limit values: 127-19-5 N,N-Dimethylacetamide (100.0%) BEI (USA) 30 mg/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: N-Methylacetamide Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling c Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing imm Wash hands before breaks and at the end of wor Store protective clothing separately. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working e. Breathing equipment: Use suitable respirator w Recommended filter device for short term use Use a respirator with organic vapor/acid gas cartir respirators are appropriate. Only use equipment Protection of suitable gloves not only depends Material of gloves Butyl rubber, BR Penetration time of glove material (in min	m m k chemicals should be followed. mediately. rk. e invironment. when high concentrations are present. e it dges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying t tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). is on the material, but also on quality. Quality will vary from manufacturer to manufacturer. s) 480
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Melting point/Melting range: -20 °C (Boiling point/Boiling range: 165-166	termined.
Sublimation temperature / start: Not dete	(-4 °F) 6 °C (329-331 °F) termined
Flammability (solid, gaseous) Not app Ignition temperature: 390 °C Decomposition temperature: Not dete	(158 °F) plicable. (734 °F) termined termined.
	termined. St does not present an explosion hazard.
Lower: 1.8 Vol Upper: 11.5 Vo Vapor pressure at 20 °C (68 °F): 3.3 hPa Density at 20 °C (68 °F): 0.94 g/c Relative density Not det Vapor density Not det	ol % a (2 mm Hg) ′cm³ (7.844 lbs/gal) termined. termined. termined.
Partition coefficient (n-octanol/water): Not dete Viscosity:	termined.
dynamic: Not dete	termined.
	termined. ther relevant information available.
kinematic: Not dete	termined.

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. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Halocarbons Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides

Product name: N,N-Dimethylacetamide

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(Contd. of page 3) 11: Toxicological information Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful in contact with skin. Danger through skin absorption. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification: LD50 4300 mg/kg (rat) Oral Dermal LD50 2240 mg/kg (rabbit) Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance. Carcinogenicity: ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals. Reproductive toxicity: May damage fertility or the unborn child. 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: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. 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. Recommended cleansing agent: Water, if necessary with cleansing agents. 14: Transport information UN-Number DOT, ADN, IMDG, IATA Not applicable UN proper shipping name DOT, ADN, IMDG, IATA Not applicable Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Not applicable Class Packing group DOT, IMDG, IATA Not applicable 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: DOT Marine Pollutant (DOT): No UN "Model Regulation": 15: Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). 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 127-19-5 N,N-Dimethylacetamide

Prop 65 - Developmental toxicity, female 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.

(Contd. on page 5)

Product name: N,N-Dimethylacetamide

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Conta. of page 4 Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. This substance is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH). 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 observed. market and use must be observed.

Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. REACH - Pre-registered substances Substance is listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16: Other information

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.

Department issuing SDS: Global Marketing Department

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 Abbreviations and acronyms:

 RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

 CAO: International Civil Aviation Organization

 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

 DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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 DI: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

 US: Corbean Internation of Tarisport de

LISA