



PURITAN PRODUCTS

Effective Date: 04/14/16

Replaces Revision: 05/01/13, 02/24/09

NON-EMERGENCY TELEPHONE
610-866-4225

24-HOUR CHEMTREC EMERGENCY TELEPHONE
800-424-9300

SDS – SAFETY DATA SHEET

1. Identification

Product Identifier: N, N-DIMETHYLACETOACETAMIDE

Synonyms: DMAA

Chemical Formula: Not applicable for mixtures

Recommended Use of the Chemical and Restrictions On Use: Industrial Use

Manufacturer / Supplier: Puritan Products; 2290 Avenue A, Bethlehem, PA 18017 **Phone:** 610-866-4225

Emergency Phone Number: 24-Hour Chemtrec Emergency Telephone 800-424-9300

2. Hazard(s) Identification

Classification of the Substance or Mixture:

Skin irritation (Category 3)

Eye irritation (Category 2B)

Risk Phrases:

R36/R38: Irritating to eyes and skin.

Label Elements:

Trade Name: N, N-DIMETHYLACETOACETAMIDE

Signal Word: Warning

Pictogram: None

Hazard Statements:

H316: Causes mild skin irritation.

H320: Causes eye irritation.

Precautionary Statements:

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. Composition / Information on Ingredients

CAS Number: Not applicable for mixtures

EC Number: Not applicable for mixtures

Molecular Weight: Not applicable for mixtures

Ingredient	CAS Number	EC Number	Percent	Hazardous	Chemical Characterization
N,N-Dimethylacetoacetamide	2044-64-6	218-059-8	80%	No	Substance
Water	7732-18-5	231-791-2	20%	No	Mixture

4. First-aid Measures

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.

Skin Contact: Wash off skin with soap large amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Consult a physician.

Eye Contact: Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Consult a physician.

5. Fire-fighting Measures

Fire: Not flammable.

Explosion: Combustible. Flashpoint 122C (252F)

Fire Extinguishing Media: Use water spray, Alcohol-resistant foam, dry chemical or Carbon Dioxide.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: No special precautionary health measures should be needed under anticipated conditions of use.

Environmental Precautions and Methods and Materials for Containment and Cleaning Up: Absorb spill with with an inert material (e. g., vermiculite, dry sand, earth,) and place in a chemical waste container. For large spills: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

7. Handling and Storage

Precautions for Safe Handling and Conditions for Safe Storage, Including Any Incompatibilities: Keep from contact with oxidizing materials. Keep container closed. Contact with metals such as mild steel, black iron, brass or copper will result in color formation. No special precautionary health measures should be needed under anticipated conditions of use.

8. Exposure Controls / Personal Protection

Airborne Exposure Limits:

OSHA Permissible Exposure Limit (PEL): None listed

ACGIH Threshold Limit Value (TLV): None listed

Ventilation System: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances; such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.

Personal Respirators (NIOSH Approved): Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. **WARNING:** Air-purifying respirators do not protect workers in Oxygen-deficient atmospheres.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and / or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Yellow liquid

Odor: Ammonia

Odor Threshold: No data available

pH: 6.5 - 7.6 at 800 g/l at 20C (68F)

% Volatiles by volume @ 21C (70F): No data available

Melting Point: Melting point/range: < -50C (< -58F)

Boiling Point / Boiling Range: 100C (212F)

Flash Point: 122C (252F) (Cleveland Open Cup)

Evaporation Rate (BuAc=1): No data available

Flammability: Combustible

Upper / Lower Flammability or Explosive Limits: No data available

Vapor Pressure (mm Hg): 14.0 hPa (10.5 mmHg) at 20C (68F)

Vapor Density (Air=1): No data available

Relative Density: 1.067 g/cm³

Solubility: Complete

Partition Coefficient: n-octanol / water: P: 0.27; log P:-0.58

Auto-ignition Temperature: 338C (640.4F) (ASTM D2155)

Decomposition Temperature: (DTA) No exotherm to 450C (842F)

Viscosity: No data available

10. Stability and Reactivity

Reactivity and / or Chemical Stability: Stable.

Possibility of Hazardous Reactions and Conditions to Avoid: No information found.

Incompatible Materials: Materials react with strong oxidizing agents.

Hazardous Decomposition Products: Emits Carbon Dioxide, Carbon Monoxide under fire conditions.

11. Toxicological Information

Emergency Overview: LOW HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING BY TRAINED PERSONNEL.

Potential Health Effects:

Inhalation: No information found.

Ingestion: No information found.

Skin Contact: No information found.

Eye Contact: No information found.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found.

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System:) No data available.

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System:) No data available.

Numerical Measures of Toxicity: Cancer Lists: NTP Carcinogen

Ingredient	Known	Anticipated	IARC Category
N,N-Dimethylacetamide (2044-64-68)	No	No	None

Acute Toxicity:

- Oral LD-50 (rat): > 3,200 mg/kg (highest dose tested)
- Oral LD-50 (mouse): > 3,200 mg/kg (highest dose tested)
- Inhalation LC-50 (rat): 6 h: > 3.7 mg/l (highest concentration tested)
- Dermal LD-50 (rabbit): 14.1 ml/kg
- Dermal LD-50 (guinea pig): > 20 ml/kg (highest dose tested)
- Skin Irritation (rabbit): Slight
- Skin Irritation (guinea pig): Slight
- Eye Irritation (rabbit): Slight

12. Ecological Information

Ecotoxicity:

- 96 h LC-50 (fathead minnow): >977.74 mg/l NOEC: 977.74 mg/l
- 48 h EC-50 (daphnid): >1005 mg/l NOEC: 1005 mg/l

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other adverse effects: No data available.

13. Disposal Considerations

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate.

14. Transport Information

Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic)

Not regulated

Maritime Transport IMDG/GGVSea

Not regulated

Air Transport ICAO-TI and IATA-DGR

Not regulated

15. Regulatory Information

Chemical Inventory Status – Part 1

Ingredient	TSCA	EC	Japan	Australia
N,N-Dimethylacetoacetamide (2044-64-68)	Yes	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

Chemical Inventory Status – Part 2

Ingredient	Korea	Canada		Phil.
		DSL	NDSL	
N,N-Dimethylacetoacetamide (2044-64-68)	Yes	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	No	Yes

Federal, State & International Regulations - Part 1

Ingredient	SARA 302		SARA 313	
	RQ	TPQ	List Chemical	Catg.
N,N-Dimethylacetoacetamide (2044-64-68)	No	No	No	No
Water (7732-18-5)	No	No	No	No

Federal, State & International Regulations - Part 2

Ingredient	RCRA		TSCA
	CERCLA	261.33	8(d)
N,N-Dimethylacetoacetamide (2044-64-68)	No	No	No
Water (7732-18-5)	No	No	No

Chemical Weapons Convention: No		TSCA 12(b): No		CDTA: No	
SARA 311/312:	Acute: Yes	Chronic: No	Fire: No	Pressure: No	
Reactivity: No		Mixture / Liquid			

16. Other Information

Revision 04/14/16 – modified Effective Date

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