

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 03/11/2015 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Substance

Trade name : PIPERIDINE/20% IN DMF

Product code AB11155

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Laboratory use/Manufacturing component/Research

Details of the supplier of the safety data sheet

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1.4. **Emergency telephone number**

: 855.835.2572 (U.S.) :: 760.602.8703 (Outside U.S.) **Emergency number**

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification (GHS-US)

Flam. Liq. 2 H225 Acute Tox. 3 (Dermal) H311 Acute Tox. 3 (Inhalation:dust,mist) H331 Skin Corr. 1A H314

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS05



GHS02

GHS06

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor

H311+H331 - Toxic in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-US) P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof production equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge P260 - Do not breathe fume, gas, mist, spray, vapors P261 - Avoid breathing fume, gas, mist, spray, vapors

P264 - Wash clothing thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection, protective clothing, protective gloves

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P303+P361+P353 - IF ON SKIN (or hair): Řemove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P311 - Call a POISON CENTER or doctor/physician

P312 - Call a POISON CENTER/doctor/physician if you feel unwell

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P321 - Specific treatment (see SECTION 4 on this label)

P361 - Remove/Take off immediately all contaminated clothing

P363 - Wash contaminated clothing before reuse

P370+P378 - In case of fire: Use water spray, foam, sand for extinction P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container to approved waste facility

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Trade name : PIPERIDINE/20% IN DMF

Name	Product identifier	%	Classification (GHS-US)
N,N-dimethylformamide	(CAS No) 68-12-2	75 - 85	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332
piperidine	(CAS No) 110-89-4	15 - 25	Flam. Liq. 2, H225 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1A. H314

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see If you feel unwell, seek medical advice. on this label).

First-aid measures after skin contact

: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. Specific measures (see Consult a doctor/medical service on this label). Wash contaminated clothing before reuse.

First-aid measures after eye contact

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries

: Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation

 $: \ \, \text{Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation.}$

Symptoms/injuries after skin contact

Repeated exposure to this material can result in absorption through skin causing significant

health hazard. Toxic in contact with skin.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor.

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Explosion hazard : May form flammable/explosive vapor-air mixture.

Reactivity : Thermal decomposition generates : Corrosive vapors.

Reactivity . Thermal decomposition generates :

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No

smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No

naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing fume/gas/mist/vapours/spray. Do not breathe

fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing.

Hygiene measures : Wash clothing, hands, forearms, face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Use explosion-proof production equipment. Comply with

applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight.,

Heat sources. Keep in fireproof place. Keep container tightly closed.

Incompatible products : Strong bases. strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

N,N-dimethylformamide (68-12-2)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	10 ppm

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or face shield.
Skin and body protection : Wear suitable protective clothing.

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Respiratory protection : Wear approved mask.

Other information : When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Colorless. Odor characteristic. Odor threshold : No data available рΗ : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point No data available Boiling point : No data available Flash point : No data available : No data available Self ignition temperature Decomposition temperature : No data available Flammability (solid, gas) No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available Solubility : No data available No data available Log Pow Log Kow : No data available Viscosity, kinematic : No data available Viscosity, dynamic No data available Explosive properties : No data available Oxidizing properties No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosive limits

Thermal decomposition generates: Corrosive vapors.

10.2. Chemical stability

Not established. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

: No data available

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition generates: Corrosive vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Toxic in contact with skin. Toxic if inhaled.

N,N-dimethylformamide (68-12-2)	
LD50 oral rat	> 2000 mg/kg (Rat)

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N,N-dimethylformamide (68-12-2)	
LD50 dermal rat	1100 mg/kg (Rat)
LC50 inhalation rat (mg/l)	5.9 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	1948 ppm/4h (Rat)
piperidine (110-89-4)	
LD50 dermal rabbit	276 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	1.5 - 3 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	2000 - 4000 ppm/4h (Rat)
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
N,N-dimethylformamide (68-12-2)	
IARC group	3 - Not Classifiable

Specific target organ toxicity (repeated

Specific target organ toxicity (single exposure)

exposure)

Reproductive toxicity

: Not classified

: Not classified

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met. Toxic in contact with skin. Toxic if

inhaled.

Symptoms/injuries after inhalation : Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation.

Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant

health hazard. Toxic in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

N,N-dimethylformamide (68-12-2)		
LC50 fish 1	9800 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	1300 mg/l (48 h; Daphnia magna)	
LC50 fish 2	6300 mg/l (96 h; Lepomis macrochirus)	
TLM fish 1	10.2 ppm 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
Threshold limit algae 1	10 mg/l (Scenedesmus quadricauda)	
Threshold limit algae 2	0.5 mg/l (Selenastrum capricornutum)	
piperidine (110-89-4)		
LC50 fish 1	46 - 100 mg/l (96 h; Leuciscus idus)	
LC50 other aquatic organisms 1	10 - 100 mg/l (96 h)	
EC50 Daphnia 1	10 mg/l (48 h; Daphnia magna)	
Threshold limit other aquatic organisms 1	10 - 100,96 h	

12.2. Persistence and degradability

PIPERIDINE/20% IN DMF	
Persistence and degradability	Not established.
N,N-dimethylformamide (68-12-2)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.9 g O ² /g substance
Chemical oxygen demand (COD)	0.3645 g O²/g substance
ThOD	1.863 g O ² /g substance
BOD (% of ThOD)	0.49 % ThOD
piperidine (110-89-4)	
Persistence and degradability	Readily biodegradable in water.

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12.3. Bioaccumulative potential

PIPERIDINE/20% IN DMF		
Not established.		
N,N-dimethylformamide (68-12-2)		
0.3-1.2,Cyprinus carpio; Test duration: 8 weeks		
-1.01 (Experimental value)		
Bioaccumulation: not applicable.		
piperidine (110-89-4)		
0.84		
Low potential for bioaccumulation (Log Kow < 4).		

Mobility in soil 12.4.

N,N-dimethylformamide (68-12-2)	
Surface tension	0.036 N/m (25 °C)

12 5 Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

Waste treatment methods

: Dispose in a safe manner in accordance with local/national regulations. Dispose of Waste disposal recommendations

contents/container to approved waste facility.

: Handle empty containers with care because residual vapors are flammable. Additional information

Ecology - waste materials : Hazardous waste due to toxicity. Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description : UN2920 Corrosive liquids, flammable, n.o.s., 8, II

UN-No.(DOT) 2920 DOT NA no. : UN2920

DOT Proper Shipping Name : Corrosive liquids, flammable, n.o.s.

Department of Transportation (DOT) Hazard

Classes

Hazard labels (DOT) : 8 - Corrosive

3 - Flammable liquid





: 8 - Class 8 - Corrosive material 49 CFR 173.136

DOT Symbols : G - Identifies PSN requiring a technical name

: II - Medium Danger Packing group (DOT)

DOT Special Provisions (49 CFR 172.102)

B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T11 - 6 178.274(d)(2) Normal..... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

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DOT Packaging Exceptions (49 CFR 173.xxx) : None
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 243
DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 30 L

CFR 175.75)

DOT Vessel Stowage Location : C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other : 25 - Shade from radiant heat,40 - Stow "clear of living quarters"

Additional information

Other information : No supplementary information available.

ADR

Transport document description : UN CORROSIVE LIQUID, FLAMMABLE, N.O.S.

Transport by sea

UN-No. (IMDG) : 2920

Proper Shipping Name (IMDG) : CORROSIVE LIQUID, FLAMMABLE, N.O.S.

Class (IMDG) : 8 - Corrosive substances

Packing group (IMDG) : II - substances presenting medium danger

Air transport

UN-No.(IATA) : 2920

Proper Shipping Name (IATA) : CORROSIVE LIQUID, FLAMMABLE, N.O.S.

Class (IATA) : 8 - Corrosives
Packing group (IATA) : II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

N,N-dimethylformamide (68-12-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	100 lb

piperidine (110-89-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

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15.3. US State regulations

N,N-dimethylformamide (68-12-2)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

piperidine (110-89-4)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 3 (Dermal) Acute Tox. 3 (Inhalation:dust,mist) Acute Tox. 4 (Dermal) Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist) Acute Tox. 4 (Inhalation:dust,mist) Acute Tox. 4 (Inhalation:dust,mist) Acute Tox. 4 (Inhalation:dust,mist) Acute toxicity (inhalation:dust,mist) Category 4 Acute Tox. 4 (Inhalation:dust,mist) Flam. Liq. 2 Flammable liquids Category 2 Flam. Liq. 3 Flammable liquids Category 3 Skin Corr. 1A H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H311 Toxic in contact with skin H312 Harmful in contact with skin H314 Causes severe skin burns and eye damage H331 Hoxic if inhaled H332 Harmful if inhaled	a of the principles of the control o	
Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist) Acute toxicity (dermal) Category 4 Acute Tox. 4 (Inhalation:dust,mist) Acute toxicity (inhalation:dust,mist) Category 4 Flam. Liq. 2 Flammable liquids Category 2 Flam. Liq. 3 Flammable liquids Category 3 Skin Corr. 1A Skin corrosion/irritation Category 1A H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H311 Toxic in contact with skin H312 Harmful in contact with skin H314 Causes severe skin burns and eye damage H331 Toxic if inhaled	Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Inhalation:dust,mist) Acute toxicity (inhalation:dust,mist) Category 4 Flam. Liq. 2 Flammable liquids Category 2 Flammable liquids Category 3 Skin Corr. 1A Skin corrosion/irritation Category 1A H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H311 Toxic in contact with skin H312 Harmful in contact with skin H314 Causes severe skin burns and eye damage H331 Toxic if inhaled	Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
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H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H311 Toxic in contact with skin H312 Harmful in contact with skin H314 Causes severe skin burns and eye damage H331 Toxic if inhaled	Flam. Liq. 3	Flammable liquids Category 3
H226 Flammable liquid and vapor H311 Toxic in contact with skin H312 Harmful in contact with skin H314 Causes severe skin burns and eye damage H331 Toxic if inhaled	Skin Corr. 1A	Skin corrosion/irritation Category 1A
H311 Toxic in contact with skin H312 Harmful in contact with skin H314 Causes severe skin burns and eye damage H331 Toxic if inhaled	H225	Highly flammable liquid and vapor
H312 Harmful in contact with skin H314 Causes severe skin burns and eye damage H331 Toxic if inhaled	H226	Flammable liquid and vapor
H314 Causes severe skin burns and eye damage H331 Toxic if inhaled	H311	Toxic in contact with skin
H331 Toxic if inhaled	H312	Harmful in contact with skin
	H314	Causes severe skin burns and eye damage
H332 Harmful if inhaled	H331	Toxic if inhaled
	H332	Harmful if inhaled

SDS US (GHS HazCom 2012)

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