

ACCORDING TO NOM-018-STPS-2015 & NMX-R-019-SCFI-2011

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Product Name N,N-Dimethylacetamide  
 CAS No. 127-19-5

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

Identified Use(s) Solvent - Industrial use only.  
 Uses Advised Against Not for direct use by the general public.

### 1.3 Details of the supplier of the safety data sheet

Company Identification Belle Chemical Company  
 Affiliate of Cornerstone Chemical Company  
 901 W. DuPont Ave.  
 Belle, West Virginia 25015  
 United States of America (USA)  
 Telephone 1-504-431-9511  
 E-mail info@cornerstonechemco.com

### 1.4 Emergency telephone number

CHEMTREC (USA and Canada) 1-800-424-9300 (24h)  
 CHEMTREC (Outside of USA and Canada) +1-703-527-3887 (24h)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

NMX-R-019-SCFI-2011 Flam. Liq. 4 :Combustible liquid  
 Acute Tox. 5 :May be harmful if swallowed.  
 Acute Tox. 4 :Harmful in contact with skin or if inhaled.  
 Eye Irrit. 2A :Causes serious eye irritation.  
 Repr. 1B : May damage fertility or the unborn child.

### 2.2 Label elements

Product Name N,N-Dimethylacetamide  
 Hazard Pictogram(s)



GHS08



GHS07

Signal Word(s) Danger

Hazard Statement(s) H227: Combustible liquid.  
 H303: May be harmful if swallowed.  
 H312+H332: Harmful in contact with skin or if inhaled.  
 H319: Causes serious eye irritation.  
 H360: May damage fertility or the unborn child.  
 Precautionary Statement(s) P201: Obtain special instructions before use.  
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P261: Avoid breathing mist/vapors/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.  
P308+P313: IF exposed or concerned: Get medical advice/attention.

## 2.3 Other hazards

Vapor may form explosive mixtures with air.

## 2.4 Additional Information

For full text of H/P Statements see section 16.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances

HAZARDOUS INGREDIENT(S)	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
N,N-dimethylacetamide	127-19-5	≥ 90 - ≤ 100	Flam. Liq. 4 H227 Acute Tox. 5 H303 Acute Tox. 4 H312 Eye Irrit. 2A H319 Acute Tox. 4 H332 Repr. 1B H360	GHS08 GHS07

## 3.2 Mixtures

Not applicable.

## 3.3 Additional Information

For full text of H/P Statements see section 16.

# SECTION 4: FIRST AID MEASURES

## 4.1 Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Skin Contact	Take off contaminated clothing and wash it before reuse. Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. When in doubt or symptoms persist, seek medical attention.

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

Harmful in contact with skin or if inhaled. Causes serious eye irritation. May be harmful if swallowed.  
Eye Contact: Pain, Tears, Swelling of tissue, Redness, Impaired vision.  
Skin Contact: Swelling of tissue, Itching, Discomfort, Redness.

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

IF exposed or concerned: Get medical advice/attention.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable Extinguishing media                      In case of fire: Use water spray, foam, dry powder or CO2 to extinguish.

Unsuitable extinguishing media                  Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Combustible liquid. Vapor may form explosive mixtures with air. Decomposes in a fire giving off toxic fumes: Oxides of nitrogen, Oxides of carbon.

### 5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. Keep containers cool by spraying with water if exposed to fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Wear appropriate personal protective equipment, avoid direct contact.

### 6.2 Environmental precautions

Do not allow to enter drains, sewers or waterways.

### 6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal.

### 6.4 Reference to other sections

See Also Section 8, 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid breathing mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash hands and exposed skin thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	< 129.9 °F /< 54.4 °C
Storage life	Stable under normal conditions.
Incompatible materials	Hexachloro cyclohexane, Carbon tetrachloride, Strong oxidizing agents.

### 7.3 Specific end use(s)

Solvent - Industrial use only.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTCL (8 hr TWA ppm)	LTCL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
N,N-dimethylacetamide	127-19-5	10				A4, PEIL, IBE

Source: Secretaria Del Trabajo Y Prevision Social Segunda Seccion

A4: No clasificado como carcinógeno en humano.

PEIL: Capacidad de la sustancia química para absorberse a través de la piel, las membranas mucosas o los ojos en cantidades significativas, incrementando el riesgo por la exposición a ese contaminante del ambiente.

IBE: Índice Biológico de Exposición recomendados por sustancia química.

### 8.2 Exposure controls

8.2.1. Appropriate engineering controls Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

#### 8.2.2. Personal protection equipment



Eye Protection

Wear goggles giving complete eye protection.



Skin protection

Wear impervious gloves, Nitrile rubber.

The following materials are suitable for protective gloves (Permeation time  $\geq$  8 hours): Butyl rubber - Butyl (0,5 mm)

Following materials are unsuitable for protective gloves because of degradation, severe swelling or low permeation time: Natural rubber/ Natural latex, Polychloroprene, Nitrile rubber/Nitrile latex, Fluoro carbon rubber, Polyvinyl chloride.



Respiratory protection

Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. Minimum recommended: Air-purifying respirator (Half-mask/ full facepiece) or supplied air respirator.



Thermal hazards

Not applicable.

8.2.3. Environmental Exposure Controls Do not allow to enter drains, sewers or waterways.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Liquid.
	Color : Clear Colorless.
Odor	Ammoniacal.
Odor threshold	Not established.
pH	4.7 @ 68°F / 20 °C
Melting point/freezing point	-4 °F / -20 °C
Initial boiling point and boiling range	331 °F / 166.1 °C @ 760 mm Hg
Flash Point	158 °F / 70 °C [Open cup]
	145 °F / 63 °C [Closed cup]

Evaporation rate	<1 (Butyl acetate= 1.0)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Flammable Limits (Upper) (%v/v): 11.5 Flammable Limits (Lower) (%v/v): 1.8
Vapor pressure	2 hPa @ 71.1°F / 21.7 °C
Vapor density	3 (Air = 1.0)
Density (g/ml)	0.945 @ 60 °F / 15.6 °C
Relative density	Not known.
Solubility(ies)	Solubility (Water) : Soluble. (1000 g/l @ 68°F / 20 °C) Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	Log Pow: -0.77 @ 77 °F / 25 °C
Auto-ignition temperature	635 °F / 335 °C
Decomposition Temperature (°C)	>662 °F / >350 °C
Viscosity	Dynamic viscosity: 0.92 mPa•s @ 68°F / 20 °C
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
<b>9.2 Other information</b>	
Molecular weight	87.12

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

None anticipated.

### 10.2 Chemical Stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Combustible liquid. Vapor may form explosive mixtures with air.

### 10.4 Conditions to avoid

Keep away from sources of ignition - No smoking.

### 10.5 Incompatible materials

Hexachloro cyclohexane, Carbon tetrachloride, Strong oxidizing agents.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity	May be harmful if swallowed.
	LD50 (oral) mg/kg: 4801
	Harmful in contact with skin. LD50 (dermal) mg/kg: 1101
Skin corrosion/irritation	Harmful if inhaled.
	LC50 (inhalation) mg/l/4h: 2.2 (Mist)
	Non-irritant.
Serious eye damage/irritation	Causes serious eye irritation.
	Causes severe irritation and corneal opacity in rabbit eyes.
Skin sensitization data	It is not a skin sensitizer.
Respiratory sensitization data	Not classified.

Germ cell mutagenicity	No evidence of mutagenic effects.
Carcinogenicity	No evidence of carcinogenic effects.
Reproductive toxicity	May damage fertility or the unborn child. The NOAEC for developmental effects in rabbits after inhalation exposure was 700 mg/m <sup>3</sup> and the LOAEC was 2000 mg/m <sup>3</sup> ; no maternal toxicity was found at dose levels up to 2000 mg/m <sup>3</sup> .
Lactation	Not classified.
STOT - single exposure	None anticipated.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.
<b>11.2 Other information</b>	Not known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

### 12.2 Persistence and Degradation

Readily biodegradable.  
Biodegradation: 70% (28 days)

### 12.3 Bioaccumulative potential

The substance has no potential for bioaccumulation.  
Log Pow: -0.77

### 12.4 Mobility in soil

The substance has high mobility in soil.

### 12.5 Other adverse effects

Not known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Decontaminate empty containers before recycling. Dispose of contents in accordance with local, state or national legislation.

### 13.2 Additional Information

None known.

## SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

### 14.1 UN number

Not applicable.

### 14.2 UN proper shipping name

Not applicable.

### 14.3 Transport hazard class(es)

Not applicable.

### 14.4 Packing group

Not applicable.

#### 14.5 Environmental hazards

Not applicable.

#### 14.6 Special precautions for user

Not applicable.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

### SECTION 15: REGULATORY INFORMATION

This Safety Data Sheet was prepared in accordance with NOM-018-STPS-2015, harmonized system for the identification and communication of hazards and risks from hazardous chemicals in the workplace and NMX-R-019-SCFI-2011, harmonized system of classification and hazard communication of chemicals.

#### 15.1 US Federal Regulations

Toxic and hazardous substances (29 CFR 1910; Subpart Z)	Listed : 127-19-5
National emission standards for hazardous air pollutants (40 CFR 61.01)	Not listed
SARA Title III Section 313	Not listed
TSCA (Toxic Substance Control Act)	Listed : 127-19-5 (Active)
CAA 602 - Ozone Depleting Substances (ODS)	Not listed

### SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16

#### LEGEND

Hazard Pictogram(s)



GHS08



GHS07

Hazard classification

Flam. Liq. 4 : Flammable liquid, Category 4  
 Acute Tox. 5 : Acute toxicity, Category 5  
 Acute Tox. 4 : Acute toxicity, Category 4  
 Eye Irrit. 2A : Serious eye damage/irritation, Category 2A  
 Repr. 1B : Reproductive toxicity, Category 1B

Hazard Statement(s)

H227: Combustible liquid  
 H303: May be harmful if swallowed.  
 H312: Harmful in contact with skin.  
 H319: Causes serious eye irritation.  
 H332: Harmful if inhaled.  
 H360: May damage fertility or the unborn child.

Precautionary Statement(s)

P201: Obtain special instructions before use.  
 P202: Do not handle until all safety precautions have been read and understood.  
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261: Avoid breathing mist/vapors/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

P304+P340: IF INHALED: Remove person to fresh air and keep 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.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P312: Call a POISON CENTER/doctor if you feel unwell.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P370+P378: In case of fire: Use water spray, foam, dry powder or CO<sub>2</sub> to extinguish.

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

P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national legislation.

#### Acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS : Chemical Abstracts Service

IATA : International Air Transport Association

IBC : Intermediate Bulk Container

ICAO : International Civil Aviation Organization

IMDG : International Maritime Dangerous Goods

LTEL : Long term exposure limit

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

UN : United Nations

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