

SAFETY DATA SHEET

Creation Date 27-Feb-2012

Revision Date 24-Dec-2021

Revision Number 3

1. Identification

Product Name

1,5-Diazabicyclo[4.3.0]non-5-ene

Cat No. :

Synonyms

CAS No

3001-72-7

DBN

Recommended Use Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

AC159610000; AC159610050; AC159610250; AC159611000

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation

Category 1 B Category 1

Label Elements

Signal Word Danger

Hazard Statements Causes severe skin burns and eye damage



Precautionary Statements Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

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

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

Eyes

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

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
1,5-Diazobicyclo[4.3.0]non-5-ene		3001-72-7	>95			
	4.	First-aid measures				
General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.					
Eye Contact		Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.					
Inhalation	Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested of inhaled the substance; give artificial respiration with the aid of a pocket mask equipped w a one-way valve or other proper respiratory medical device. Call a physician immediately not breathing, give artificial respiration.					
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water. Call a physician immediately.					
Most important symptoms and	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric					

effects

Notes to Physician

lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	CO 2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	94 °C / 201.2 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.

Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂). Thermal decomposition can lead to release of irritating gases and vapors.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health 3	Flammability 1	Instability 1	Physical hazards N/A		
	6. Accidental rel	ease measures			
Personal Precautions	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required. Ensure adequate ventilation.				
Environmental Precautions	Should not be released into the environment. See Section 12 for additional Ecological Information.				

Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Up

	7. Handling and storage			
Handling	Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.			
Storage.Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place. maintain product quality: Store under an inert atmosphere. Incompatible Materials. Acid Acid anhydrides. Acid chlorides. Chloroformates.				
	8. Exposure controls / personal protection			
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure			

limitsestablished by the region specific regulatory bodies.

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash station and safety showers are close to the workstation location.			
Personal Protective Equipment				
Eye/face Protection	Tight sealing safety goggles. Face protection shield.			
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.			
Respiratory Protection	Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.			

9. Physical and chemical properties

J -	
Physical State	Liquid
Appearance	Light yellow
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	95 - 98 °C / 203 - 208.4 °F @ 7.5 mmHg
Flash Point	94 °C / 201.2 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	4.28
Specific Gravity	1.000
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C7 H12 N2
Molecular Weight	124.19

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Moisture sensitive. Air sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Exposure to moist air or water. Exposure to air.
Incompatible Materials	Acids, Acid anhydrides, Acid chlorides, Chloroformates
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂), Thermal decomposition can lead to release of irritating gases and vapors
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

	11. Toxico	ological info	ormation					
Acute Toxicity								
Product Information Component Information Toxicologically Synergistic Products	-	No acute toxicity information is available for this product No information available						
Delayed and immediate effects as	well as chronic effe	ects from short an	d long-term expo	sure_				
Irritation	Causes burns by a	all exposure routes						
Sensitization	No information ava	ailable						
Carcinogenicity	The table below in	dicates whether ea	ach agency has list	ed any ingredient	as a carcinogen.			
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
1,5-Diazobicyclo[4.3.0] 3001-72-7 non-5-ene	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects	No information ava	ailable						
Reproductive Effects	No information ava	ailable.						
Developmental Effects	No information ava	ailable.						
Teratogenicity	No information ava	No information available.						
STOT - single exposure STOT - repeated exposure	None known None known							
Aspiration hazard	No information available							
Symptoms / effects,both acute and delayed	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation							
Endocrine Disruptor Information	No information available							
Other Adverse Effects The toxicological properties have not been fully investigated.								
	12. Ecol	ogical infor	mation					
Ecotoxicity Do not empty into drains.								
Persistence and Degradability	Persistence is unlikely							
Bioaccumulation/ Accumulation	No information available.							
Mobility	Mobility Will likely be mobile in the environment due to its water solubility.							
Componer				log Pow				
1,5-Diazobicyclo[4.3.	ujnon-5-ene			1.71				
	13. Dispo	sal conside	erations					
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.							

	14. Transport information				
DOT					
UN-No	UN3267				
Proper Shipping Name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.				
Hazard Class	8				
Packing Group	II				
TDG					
UN-No	UN3267				
Proper Shipping Name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.				
Hazard Class	8				
Packing Group	II				
IATA	1010007				
UN-No					
Proper Shipping Name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.				
Hazard Class	8				
Packing Group	11				
IMDG/IMO UN-No	UN3267				
Proper Shipping Name					
Hazard Class	Corrosive liquid, basic, organic, n.o.s. 8				
Packing Group					
	15. Regulatory information				

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1,5-Diazobicyclo[4.3.0]non-5-ene	3001-72-7	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
1,5-Diazobicyclo[4.3.0]non-5-ene	3001-72-7	-	-	221-087-3	Х	Х		Х	Х	KE-09861

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	Slight risk, Grade 1

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
1,5-Diazobicyclo[4.3.0]non-5- ene	3001-72-7	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
1,5-Diazobicyclo[4.3.0]non-5- ene	3001-72-7	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	27-Feb-2012
Revision Date	24-Dec-2021
Print Date	24-Dec-2021
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS