



# BDX

## Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard and the Hazardous Products Regulation (WHMIS 2015)  
Issue date: 6/5/2024 Revision date: 6/5/2024 Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : BDX  
Product code : 117

#### 1.2. Recommended use and restrictions on use

Recommended use : Automotive Care Products, Polishing agent  
Restrictions on use : None known

#### 1.3. Supplier

3D International  
20724 Centre Pointe Pkwy #1  
Santa Clarita, CA 91350  
T 888-999-7627

#### 1.4. Emergency telephone number

Emergency number : (Chemical Spills, Leaks, Fire, Exposure or Accident only)  
CHEMTREC 1-800-424-9300 (in the US & Canada)  
1-703-527-3887 (Outside the US)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Corrosive to metals Category 1	May be corrosive to metals
Acute toxicity (oral) Category 4	Harmful if swallowed
Serious eye damage Category 1	Causes serious eye damage
Skin sensitization, Category 1	May cause an allergic skin reaction

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : May be corrosive to metals  
Harmful if swallowed  
May cause an allergic skin reaction  
Causes serious eye damage

Precautionary statements (GHS US) : Keep only in original container.  
Avoid breathing mist, vapors, spray.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves, eye protection.  
If swallowed: Call a doctor if you feel unwell.

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Rinse mouth.  
If on skin: Wash with plenty of water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
If in eyes: 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.  
Absorb spillage to prevent material-damage.  
Store in corrosive resistant container with a resistant inner liner.  
Dispose of contents/container to an approved waste disposal plant.

### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : None known.

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%
Sodium mercaptoacetate	CAS-No.: 367-51-1	7 - 13
C9-11 PARETH-6	CAS-No.: 68439-46-3	5 – 10

Comments : \*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret  
Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.  
First-aid measures after inhalation : Move the affected person to fresh air. Get medical attention if symptoms occur.  
First-aid measures after skin contact : Wash with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing. Wash contaminated clothing before reuse.  
First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Get immediate medical advice/attention.  
First-aid measures after ingestion : Rinse mouth out with water. Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Inhalation : May cause minor irritation to the respiratory tract and to other mucous membranes.  
Skin : May cause slight irritation to the skin. Prolonged or repeated contact may cause skin to become dry. May cause an allergic skin reaction.  
Eyes : Causes serious eye damage.  
Ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
Chronic symptoms : None known.

### 4.3. Immediate medical attention and special treatment, if necessary

Immediate medical attention is required for eye contact.

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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.  
Unsuitable extinguishing media : None.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : This product is not classified as flammable or combustible.  
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>).

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment.

### SECTION 6: Accidental release measures

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

General measures : Wear suitable protective clothing. Avoid contact with eyes, skin and clothing.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin and eyes. Avoid breathing mist, vapors, spray.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.  
Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container.  
Other information : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes, skin and clothing. Wear protective gloves, eye protection. Wash thoroughly after handling. Avoid breathing mist, vapors, spray. Ensure adequate ventilation.  
Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Always wash hands after handling the product.

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

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Keep only in original container.

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Incompatible materials : Metals.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : No particular/specific measures required.  
Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

##### Hand protection:

Consult glove manufacturer's product information on material suitability and material thickness. Wear suitable gloves

##### Eye protection:

Chemical goggles

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Colourless
Odor	: None
Odor threshold	: No data available
pH	: 5 – 7
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: > 1
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: > 2000 mm <sup>2</sup> /s @40°C
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: None.

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Oxidizing properties : None.

### 9.2. Other information

VOC content : Tested using liquid component

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Oxidizing agent. metals.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

BDX	
ATE US (oral)	434.028 mg/kg body weight
Sodium mercaptoacetate (367-51-1)	
LD50 oral rat	50 – 200 mg/kg (OECD 423 method)
LD50 dermal rat	1000 – 2000 mg/kg
ATE US (oral)	50 mg/kg body weight
ATE US (dermal)	1000 mg/kg body weight
C9-11 PARETH-6 (68439-46-3)	
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 1.6 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation : Not classified

pH: 5 – 7

Serious eye damage/irritation : Causes serious eye damage.

pH: 5 – 7

Respiratory or skin sensitization : May cause an allergic skin reaction.

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

Sodium mercaptoacetate (367-51-1)	
LOAEL (oral, rat, 90 days)	60 mg/kg body weight (OECD 408 method)
LOAEL (dermal, rat/rabbit, 90 days)	11.25 mg/kg body weight (OECD 411 method)
NOAEL (oral, rat, 90 days)	20 mg/kg body weight (OECD 408 method)
NOAEL (dermal, rat/rabbit, 90 days)	≥ 180 mg/kg body weight (OECD 411 method)
C9-11 PARETH-6 (68439-46-3)	
NOAEL (oral, rat, 90 days)	≥ 500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Aspiration hazard	: Not classified
Viscosity, kinematic	: > 2000 mm <sup>2</sup> /s @40°C
Inhalation	: May cause minor irritation to the respiratory tract and to other mucous membranes.
Skin	: May cause slight irritation to the skin. Prolonged or repeated contact may cause skin to become dry. May cause an allergic skin reaction.
Eyes	: Causes serious eye damage.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
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Sodium mercaptoacetate (367-51-1)	
LC50 - Fish [1]	> 100 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout)
EC50 - Crustacea [1]	47.31 mg/l <i>Daphnia magna</i> (Water flea)
EC50 72h - Algae [1]	5.07 mg/l <i>Pseudokirchneriella subcapitata</i>
NOEC (chronic)	3.9 mg/l Test organisms (species): Duration: '21 d'

C9-11 PARETH-6 (68439-46-3)	
LC50 - Fish [1]	5 – 7 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> )
EC50 - Crustacea [1]	2.5 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 96h - Algae [1]	1.4 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> )

### 12.2. Persistence and degradability

BDX	
Persistence and degradability	No additional information available.
Sodium mercaptoacetate (367-51-1)	
Persistence and degradability	Readily biodegradable..

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Sodium mercaptoacetate (367-51-1)	
Biodegradation	> 60 % 28 days
C9-11 PARETH-6 (68439-46-3)	
Persistence and degradability	Rapidly degradable

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available





## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional waste regulation : Dispose of in accordance with applicable federal, state, and local regulations.  
Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
1760	UN1760	1760	1760
14.2. Proper Shipping Name			
Corrosive liquids, n.o.s. (CONTAINS : Sodium mercaptoacetate)	CORROSIVE LIQUID, N.O.S. (CONTAINS : Sodium mercaptoacetate)	CORROSIVE LIQUID, N.O.S. (CONTAINS : Sodium mercaptoacetate)	Corrosive liquid, n.o.s. (CONTAINS : Sodium mercaptoacetate)
14.3. Transport hazard class(es)			
8	8	8	8
	 Not applicable		
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

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### 14.6. Special precautions for user

#### DOT

UN-No.(DOT)	: UN1760
DOT Special Provisions (49 CFR 172.102)	: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 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.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"

#### TDG

UN-No. (TDG)	: UN1760
TDG Special Provisions	: 16 - 1) The technical name of the most dangerous substance related to the primary class must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(i)(A) of Part 3, Documentation. The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4, Dangerous Goods Safety Marks. 2) subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical: a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act".
Explosive Limit and Limited Quantity Index	: 5 L
Excepted quantities (TDG)	: E1
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5 L
Emergency Response Guide (ERG) Number	: 154

#### IMDG

Special provision (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES

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Stowage category (IMDG) : A  
Stowage and handling (IMDG) : SW2  
Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

### IATA

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y841  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 852  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 856  
CAO max net quantity (IATA) : 60L  
Special provision (IATA) : A3, A803  
ERG code (IATA) : 8L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### BDX

SARA Section 311/312 Hazard Classes	Refer to Section 2 for OSHA Hazard Classification.
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All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

##### Sodium mercaptoacetate (367-51-1)

Listed on the Canadian DSL (Domestic Substances List)

##### C9-11 PARETH-6 (68439-46-3)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

#### BDX

Listed on the Canadian DSL (Domestic Substances List)

##### C9-11 PARETH-6 (68439-46-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

According to 29CFR 1910.1200 OSHA Hazard Communication Standard and the Hazardous Products Regulation (WHMIS 2015)

Revision date : 6/5/2024

Data sources : This safety data sheet was compiled with data and information from the following sources :  
RTECS, ECOSAR, HSDB, SIDS SIAP, CESAR, Chemical DB.

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.