

Revision Date: 03/15/2019

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product Identifier: POLYCAT DBU

Other means of identification

Recommended restrictions

Recommended use: Chemical Intermediate Restrictions on use: Not determined.

Manufacturer/Importer/Distributor Information

Company Name

: Evonik Corporation Nutrition & Care PO Box 34628 Richmond, VA 23234

USA

Telephone

: +1 804 727 0700

Fax

: +1 804 727 0845

E-mail

us-productsafety-cs@evonik.com

Emergency telephone number:

24-Hour Health

: +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency

+1 800 681 9531 (CHEMTREC MEXICO) +1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Oral) Skin corrosion

Category 3
Category 1B

Label Elements

Hazard Symbol:



Signal Word:

Danger



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Hazard Statement:

Toxic if swallowed.

Causes severe skin burns and eye damage.

Precautionary Statements

Prevention:

Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands

thoroughly after handling.

Response:

IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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/doctor. Wash

contaminated clothing before reuse.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Substances

Chemical Identity	CAS number	Content in percent (%)*	
Pyrimido[1,2-a]azepine, 2,3,4,6,7,8,9,10-octahydro-	6674-22-2	100%	

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Description of necessary first-aid measures

General information:

Seek medical advice. If breathing is irregular or stopped, administer artificial

respiration.

Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

Move to fresh air.

Skin Contact:

Wash off immediately with soap and plenty of water. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Flush immediately with copious amounts of water. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing.

Eye contact:

Rinse immediately with plenty of water for at least 15 minutes. Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly

available, continue to irrigate for one hour.



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Ingestion:

Prevent aspiration of vomit. Turn victim's head to the side. Never give anything by mouth to an unconscious person. If swallowed, seek medical advice immediately and show this container or label.

Personal Protection for First-

aid Responders:

Avoid contact with skin., A face shield should be worn. Use personal protective equipment., Wear self-contained breathing apparatus for

firefighting if necessary.

Most important symptoms/effects, acute and delayed

Symptoms:

Repeated and/or prolonged exposure to low concentrations of vapors

and/or aerosols may cause:

Sore throat.

Hazards:

No data available.

Indication of immediate medical attention and special treatment needed

Treatment:

Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards:

Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Carbon Dioxide. Dry chemical. Dry sand. Limestone powder Alcohol

resistant foam.

Unsuitable extinguishing

media:

No data available.

Specific hazards arising from

the chemical:

Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Avoid contact with skin. A face shield should be worn. Use personal protective equipment. Wear self-contained breathing apparatus for

firefighting if necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Evacuate personnel to safe areas. Use self-contained breathing apparatus and chemically protective clothing.

Accidental release measures:

If possible, stop flow of product.

Methods and material for containment and cleaning

Environmental Precautions:

Place in appropriate chemical waste container. Approach suspected leak areas with caution. Call Emergency Response number for advice.

up:

Construct a dike to prevent spreading.



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7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are

kept below exposure limits.

Safe handling advice:

Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use only in well-ventilated areas.

Avoid breathing vapors and/or aerosols. Use personal protective

equipment.Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash hands at the end of each workshift and before

eating, smoking or using the toilet.

Contact avoidance measures:

No data available.

Hygiene measures:

Provide readily accessible eye wash stations and safety showers.

Storage

Safe storage conditions:

Do not store in reactive metal containers. Do not store near acids. Store in steel containers preferably located outdoors, above ground, and

surrounded by dikes to contain spills or leaks. Keep containers tightly

closed in a dry, cool and well-ventilated place.

Safe packaging materials:

No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Appropriate Engineering

Controls

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are

kept below exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Full face shield with goggles underneath.

Skin Protection

Hand Protection:

Additional Information: Butyl rubber., Nitrile rubber., Neoprene gloves, Impervious glovesAdditional Information: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

Skin and Body

Protection:

No specific recommendations. Impervious clothing Rubber or plastic boots

Slicker Suit.

Respiratory Protection:

Wear appropriate respirator when ventilation is inadequate. Not required for

properly ventilated areas.

Hygiene measures:

Provide readily accessible eye wash stations and safety showers.

9. Physical and chemical properties

Appearance

Physical state:

liquid

Form:

liquid



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Color:

Odor:

colourless

Odor Threshold:

Odorless

...

No data available.

pH: Freezing point: > 12.5 alkalines

Boiling Point:

No data available. 259 °C

Flash Point:

> 96.11 °C

Evaporation Rate:

No data available.

Flammability (solid, gas):

No data available.

Explosive limit - upper (%):

No data available. No data available.

Explosive limit - lower (%): Vapor pressure:

< 1.73 hPa (21 °C)

Vapor density (air=1):

No data available. 1.04 g/cm3 (21 °C)

Density:

/water -- 1) 1 04

Relative density:

(water = 1) 1.04

Solubility(ies)

Solubility in Water:

Completely Soluble

Solubility (other):

No data available.

Partition coefficient (n-octanol/water):

No data available. No data available.

Self Ignition Temperature:

No data available.

Decomposition Temperature: Kinematic viscosity:

No data available.

Dynamic viscosity:

No data available.

Other information

Explosive properties:

No data available.

Oxidizing properties:

No data available.

Minimum ignition temperature:

No data available.

Metal Corrosion:

No data available.

10. Stability and reactivity

Reactivity:

see section "Possibility of hazardous reactions"

Chemical Stability:

Stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid:

No data available.

Incompatible Materials:

Organic acids (i.e. acetic acid, citric acid etc.). Mineral Acid Sodium hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent

decomposition of peroxide possibly creating an explosion. Oxidizing agents.

Hazardous Decomposition

Products:

Nitric acid. Ammonia Nitrogen Oxides Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon Monoxide, Carbon Dioxide.

11. Toxicological information

Information on likely routes of exposure



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Inhalation:

If handled correctly, not a relevant route of exposure. Information on effects

are given below.

Skin Contact:

Relevant route of exposure. Information on effects are given below.

Eye contact:

Relevant route of exposure. Information on effects are given below.

Ingestion:

If handled correctly, not a relevant route of exposure. Information on effects

are given below.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:

No data available.

Skin Contact:

No data available.

Eye contact:

No data available.

Ingestion:

No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:

LD 50 (Rat): 251 - 300 mg/kg

Dermal

Product:

LD 50 (Rabbit): > 1,233 mg/kg

Inhalation

Product:

No data is available on the product itself.

Repeated dose toxicity

Product:

No data available.

Skin Corrosion/Irritation

Product:

Corrosive in an in vitro test.

Serious Eye Damage/Eye Irritation

Product:

Severe eye irritation Corrosive to the eyes of a rabbit.

Respiratory or Skin Sensitization

Product:

No data available.

Carcinogenicity

Product:

No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

US. National Toxicology Program (NTP) Report on Carcinogens:

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):



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Germ Cell Mutagenicity

In vitro

Product:

No data available.

In vivo

Product:

No data available.

Reproductive toxicity

Product:

No data is available on the product itself.

Specific Target Organ Toxicity - Single Exposure

Product:

No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:

No data available.

Aspiration Hazard

Product:

No data available.

Other effects:

No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:

LC 50 (Leuciscus idus (Golden orfe), 96 h): 100 - 220 mg/l

Aquatic Invertebrates

Product:

EC 50 (Daphnia (water flea), 48 h): 50 mg/l

Chronic hazards to the aquatic environment:

Fish

Product:

No data available.

Aquatic Invertebrates

Product:

No data available.

Toxicity to Aquatic Plants

Product:

No data is available on the product itself.

Persistence and Degradability

Biodegradation

Product:

< 20 % According to the results of tests of biodegradability this product is not

readily biodegradable.

BOD/COD Ratio

Product:

No data available.



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Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:

No data available.

Partition Coefficient n-octanol / water (log Kow)

Product:

Log Kow: No data available.

Mobility in soil:

No data available.

Components:

Pyrimido[1,2-a]azepine,

No data available.

2,3,4,6,7,8,9,10octahydro-

Other adverse effects:

Do not allow to enter soil, waterways or waste water canal.

13. Disposal considerations

Disposal methods:

Contact supplier if guidance is required.

Contaminated Packaging:

Dispose of container and unused contents in accordance with federal,

state, and local requirements.

14. Transport information

Domestic regulation

49 CFR

UN/ID/NA number

UN 2922

Proper shipping name

: Corrosive liquids, toxic, n.o.s.

(Diazabicyclo(5,4.0)undec-7-ene, 1,8- (dbu))

Class

: 8

Subsidiary risk

: 6.1

Packing group

: 11

Labels

: 8 (6.1)

ERG Code

. . .

Marine pollutant

: 154

•

: no

Remarks

Keep separate from foodstuffs, luxury foods, feedstuffs

International Regulations

IATA-DGR

UN/ID No.

UN 2922

Proper shipping name

Corrosive liquid, toxic, n.o.s.

(Diazabicyclo(5.4.0)undec-7-ene, 1,8- (dbu))



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Class : 8

Subsidiary risk . 6.1

Packing group

Labels : 8 (6.1)

Packing instruction (cargo

855

aircraft)

Packing instruction :

(passenger aircraft)

: 851

IMDG-Code

UN number : UN 2922

Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.

(Diazabicyclo(5.4.0)undec-7-ene, 1,8- (dbu))

Class : 8

Subsidiary risk \$ 6.1

Packing group : II

Labels 8 (6.1)

EmS Code F-A, S-B

Marine pollutant no

Remarks : Clear of living quarters.

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

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.



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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute toxicity (any route of exposure), Skin Corrosion or Irritation

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

SARA 311/312 Hazardous Chemical

Chemical Identity

Threshold Planning Quantity

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

- www.P65Warnings.ca.gov

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

US TSCA Inventory:

Included on Inventory.

Canada DSL Inventory List:

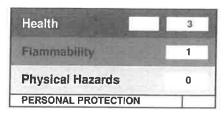
Included on Inventory.



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16.Other information, including date of preparation or last revision

HMIS Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date:

03/15/2019

Version #:

1.0

Further Information:

No data available.

Revision Information:

Changes since the last version are highlighted in the margin. This version

replaces all previous versions.

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