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Revision Number 1

Section 1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product Name Dibenzyl Azodicarboxylate
Synonyms DBAD
Formula C₁₆H₁₄N₂O₄

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

Recommended Use Chemical intermediate
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet**Company**

VanDeMark Chemical Inc.
1 North Transit Road
Lockport, NY 14094, USA
Telephone: 716-433-6764

For further information, please contact

E-mail Address sales@vdmchemical.com

1.4. Emergency telephone number

Emergency Telephone Number CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

Europe	112
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Section 2. Hazards identification**2.1. Classification of the substance or mixture****REGULATION (EC) No 1272/2008**

Serious Eye Damage/Eye Irritation	Category 2
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Physical Hazards	None
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Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

Symbol(s) Xi - Irritant
R-code(s) Xi;R36

2.2. Label Elements

**Signal Word****Warning****Hazard Statements**

H319 - Causes serious eye irritation

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

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

2.3. Other information

Section 3. Composition/information on ingredients

3.1. Substances**Chemical Nature of the Preparation** Organic compound.

Chemical Name	EC-No	CAS-No	Weight %	Classification	EU - GHS Substance Classification	REACH No.
Dibenzyl Azodicarboxylate	219-508-0	2449-05-0	98	Xi;R36	Eye Irrit. 2 (H319)	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16**For the full text of the H-Statements mentioned in this Section, see Section 16**

Section 4. First aid measures

4.1. Description of first-aid measures**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Ingestion

Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Consult a physician.

Inhalation

Move to fresh air. If symptoms persist, call a physician.

Protection of First-aiders

Use personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed**Most Important Symptoms/Effects** No information available.**4.3. Indication of immediate medical attention and special treatment needed**

Notes to Physician

Treat symptomatically.

Section 5. Fire-fighting measures**5.1. Extinguishing media****Suitable Extinguishing Media**Water. Carbon dioxide (CO₂). Dry powder. Foam.**Extinguishing media which must not be used for safety reasons**

No information available.

5.2. Special hazards arising from the substance or mixture**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

Thermal decomposition can lead to release of irritating gases and vapors.

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent product from entering drains.

6.3. Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

6.4. Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage**7.1. Precautions for Safe Handling****Handling**

Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not breathe vapors/dust. Avoid contact with skin and eyes.

Hygiene Measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep away from heat. Keep at temperatures below 4.4°C / 40°F. Keep in properly labeled containers. Shelf life 6 months.

7.3. Specific end use(s)**Exposure Scenario**

No information available.

Other Guidelines

No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures

Showers, eyewash stations, and ventilation systems.

Personal protective equipment

Eye Protection

Safety glasses with side-shields.

Skin and Body Protection

Long sleeved clothing. Impervious gloves.

Hand Protection

Protective gloves.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Environmental Exposure Controls Do not allow material to contaminate ground water system.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Solid, Crystalline, Powder	Appearance	Yellow-orange
Odor	Odorless		

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	6-8	(20 % solution)
Melting Point/Range	45-49°C / 113-120°F	None known
Boiling Point/Range	Decomposes	None known
Flash Point	230°C / 446°F	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	Insoluble in water.	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	approx. 150 °C	None known
Viscosity	No data available	None known

Explosive Properties No information available

Oxidizing Properties No information available

9.2. Other information

VOC Content (%) No information available

Section 10. Stability and reactivity

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10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under recommended storage conditions. Temperatures above 100°C will result in vigorous decomposition

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight. Exposure to air or moisture over prolonged periods.

Strong oxidizing agents. Water. Alcohols

10.6. Hazardous decomposition products

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

Section 11. Toxicological information

11.1.

Acute Toxicity

Product Information

Inhalation

There is no data available for this product.

Eye Contact

Causes serious eye irritation.

Skin Contact

There is no data available for this product.

Ingestion

There is no data available for this product.

LD50 Dermal:

>2150 mg/kg (rabbit)

LC50 Inhalation:

>28000 mg/m³ (dust)

Irritation

Irritating to eyes. Inhalation of dust in high concentration may cause irritation of respiratory system.

Corrosivity

No information available.

Sensitization

No information available.

Mutagenic Effects

No information available.

Carcinogenic Effects

No information available.

Reproductive Toxicity

No information available.

Developmental Toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Target Organ Effects

Eyes. Respiratory system.

Aspiration Hazard

No information available.

Section 12. Ecological information

12.1. Toxicity

Ecotoxicity Effects

The environmental impact of this product has not been fully investigated.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential.

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

Waste treatment methods**Waste from Residues/Unused Products**

Waste is classified as hazardous. Should not be released into the environment. Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of in accordance with local regulations.

Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Section 14. Transport information

IMDG/IMO

14.1. UN-No	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Marine Pollutant	None.
14.6. Special Provisions	None.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.

RID

14.1. UN-No	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

ADR

14.1. UN-No	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

Section 14. Transport information

ICAO

14.1. UN-No	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

IATA

14.1. UN-No	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

Section 15. Regulatory information

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

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Listed on NDSL
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 AICS - Australian Inventory of Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No information available

Section 16. Other information

Full text of R-phrases referred to under Sections 2 and 3

R36 - Irritating to eyes

Full text of H-Statements referred to under sections 2 and 3

H319 - Causes serious eye irritation

Key literature references and sources for data

www.ChemADVISOR.com/

Issuing Date	06-Aug-2007
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Revision Note	Update to Format.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

General Disclaimer

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End of Safety Data Sheet