



Safety Data Sheet

Revision Number: 02.1

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Un-Cure™	IDH number:	161-162
Product type:	Cyanoacrylate Debonder	Item number:	161-162
Restriction of Use:	None identified	Region:	United States
Company address:	Contact information:		
Bob Smith Industries, Inc.	Telephone: (805) 466-1717		
8060 Morro Road	MEDICAL EMERGENCY Phone: Poison Control Center		
Atascadero, CA 93422	1-877-671-4608 (toll free) or 1-303-592-1711		
	TRANSPORT EMERGENCY Phone:		
	1-800-223-7699 (toll free)		
	www.bsi-inc.com		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: COMBUSTIBLE LIQUID.
IRRITATING TO EYES AND SKIN
MAY CAUSE TEARING IN EYES
MAY CAUSE LIVER AND KIDNEY DAMAGE

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	3
EYE AND SKIN IRRITANT	2

PICTOGRAM(S)



Precautionary Statements

Prevention: Keep away from heat, sparks, open flames. No smoking. Avoid breathing vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection and face protection.

Response: IF ON SKIN: Wash with soap and water. Prolonged contact may cause dermatitis. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse with water for several minutes. If eye irritation persists: Get medical attention. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish. IF INGESTED: Do not induce vomiting. Drink water. Get immediate medical aid.

Storage: Store in a well-ventilated place. Keep container tightly closed. Keep in a cool and dark area.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

H-2, F-2, R-0

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
N,N-Dimethylformamide	68-12-2	>95

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If respirator irritation, dizziness, nausea or unconsciousness occurs, seek medical attention.
Skin contact:	Wash contact area with soap and water. Remove contaminated clothing. Launder contaminated clothing before use.
Eye contact:	Immediately flush thoroughly with water. If irritation occurs, get medical attention.
Ingestion:	Seek immediate medical attention. Do not induce vomiting. Drink water.
Symptoms:	See Section 11.
Notes to physician:	Treat symptomatically and supportively..

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special firefighting procedures:	In enclosed spaces, wear a self-contained breathing apparatus. Will burn if involved in a fire.
Unusual fire or explosion hazards:	Vapors are heavier than air
Hazardous combustion products:	None known.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Ventilate area. Do not allow product to enter the environment.
Clean-up methods:	Absorb or cover with dry earth, sand or other non-combustible material. Use clean non-sparking tools to collect absorbed material. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling:	Prevent contact with eyes and avoid contact with skin. Avoid breathing vapor and mist. Wash thoroughly with soap and water after handling. Material can accumulate static charges. Keep away from heat, sparks and flame.
Storage:	For safe storage, store between 0 °C (32°F) and 24°C (75°F). Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
N,N-Dimethylformamide	10 ppm TWA	10 ppm TWA	10 ppm TWA	None

Engineering controls:	Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Organic vapor cartridges are recommended.
Eye/face protection:	Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.
Skin protection:	Use appropriate gloves and aprons as necessary to prevent contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Colorless, Transparent
Odor:	Slight Amine
Odor threshold:	N/D
pH:	6-8 20% aq.sol.
Vapor pressure:	4.9 mbar @ 20° C
Boiling point/range:	153 °C (307°F)
Melting point/ range:	-61°C (-78°F)
Specific gravity:	0.945
Vapor density:	2.5 (Air = 1.0)
Flash point:	58°C (136°F) ASTM D-56
Flammable/Explosive limits - lower:	2.2
Flammable/Explosive limits - upper:	15.2
Auto-ignition temperature:	445 °C (662°F)
Evaporation rate:	0.17
Solubility in water:	Soluble in water
Partition coefficient (n-octanol/water):	Not determined
VOC content:	< 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)
Viscosity:	0.8 mPa.s at 20°C
Decomposition temperature:	350°C

10. STABILITY AND REACTIVITY

Stability:	Material is stable under recommended storage conditions.
Hazardous reactions:	Hazardous polymerization will not occur.
Hazardous decomposition products:	Carbon monoxide, Carbon dioxide, Nitrogen oxides.
Incompatible materials:	Strong oxidizers, Halogens
Reactivity:	None under normal processing.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Ingestion, Eyes

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. Exposure to vapors above the established exposure limit results in respiratory irritation, which may cause headaches, dizziness, anesthesia and drowsiness. Is not a respiratory sensitizer.

Skin contact: May cause skin irritation. Prolonged skin contact may defat the skin resulting in possible irritation and dermatitis. Is not a skin sensitizer.

Eye contact: May cause mild, short lasting discomfort to eyes.

Ingestion: Minimally toxic.

Aspiration: Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
N,N-Dimethylformamide	4.72g/kg / 3421 ppm/1H	Irritant, Liver and kidney effects

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
N,N-Dimethylformamide	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Has very low aquatic toxicity. Is readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal. May be disposed by supervised incineration at very high temperatures.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: N,N-Dimethylformamide
Hazard class or division: Combustible Liquid 3
Identification number: 2265
Packing group: III

International Air Transportation (ICAO/IATA)

Proper shipping name: N,N-Dimethylformamide
Hazard class or division: 3
Identification number: UN 2265
Packing group: III

Exceptions:

Primary packs containing less than 500ml are unregulated by these modes of transport and may be shipped unrestricted.

Water Transportation (IMO/IMDG)

Proper shipping name:	Dimethylformamide
Hazard class or division:	3
Identification number:	2265
Packing group:	III
Marine pollutant:	No

15. REGULATORY INFORMATION**United States Regulatory Information**

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification:	None above reporting de minimis.
CERCLA/SARA Section 302 EHS:	None above reporting de minimis.
CERCLA/SARA Section 311/312:	Immediate Health, Delayed Health, Fire
CERCLA/SARA Section 313:	None above reporting de minimis.
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status:	Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.
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16. OTHER INFORMATION**REACH & RoHS2.0 Compliant****Schedule B HS #29 3.69.0000**

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