

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/05/2015 Revision date: 05/05/2015 Version: 1.0

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking
1.1. Product identifier	
Product name : Tech-Bo	ond Debonder
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against
	der for Structural Cyanoacrylate (SCA) Adhesives
1.3. Details of the supplier of the safety da	ata sheet
Tech-Bond Solutions 2055 Corvair Blvd., Suite 108, Columbus, OH 43207 - United States T 877 565 7225; F 866 411 0032 sales@tech-bond.nethttp://www.tech-bond.	
1.4. Emergency telephone number	
Emergency number	: 1-800 535 5035
SECTION 2: Hazards identification	
2.1. Classification of the substance or mix	xture
GHS-US classification	
Flam. Liq. 2 H225 Eye Irrit. 2A H319 STOT SE 3 H336	
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	HS02 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H225 - Highly flammable liquid and vapor H319 - Causes serious eye irritation H336 - May cause drowsiness, dizziness or fainting H302 - Harmful is swallowed
Precautionary statements (GHS-US)	 P201 - Obtain special instructions before use P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking P280 - Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P308+P313 - IF exposed or concerned: Get medical advice/attention P403+P235 - Store in a well-ventilated place. Keep cool P501 - Dispose of contents/container to local, regional, national, and international regulations
SECTION 3: Composition/information	on ingredients

3.1: Substances

Hazardous ingredients:

Name	Product identifier	%	GHS-US classification
acetone	(CAS No) 67-64-1	15 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Nitromethane	(CAS No) 75-52-5	> 70	Flam. Liq. 3, H227 Eye Irrit. 2A H319 Skin Irrit. 2, H315 Harmful if swallowed STOT SE 3, H335

SECTION 4: oFirst Aid Measures

4.1: Description of first aid measures.

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First-aid measures after skin contact	: Rinse skin immediately with plenty of soap and water/shower for 10 minutes or longer. Remove/Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Rinse immediately with plenty of water for at least 15 minutes. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Immediately after ingestion: give lots of water to drink. Do not give
	milk/oil to drink. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries	: Irritation of the eye tissue.
Symptoms/injuries after inhalation	: May cause drowsiness, dizziness or fainting. May cause respiratory irritation.
Symptoms/injuries after skin contact	: May cause irritation to skin.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Gastrointestinal complaints. Convulsions. Coma.
4.3. Indication of any immediate medical	attention and special treatment needed
If exposed or concerned, get medical advice and	attention.
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray or fog. Carbon dioxide. Dry chemical powder. Foam. Sand.
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire. Do not use a heavy water
	stream.
5.2. Special hazards arising from the sub	ostance or mixture
Fire hazard	: Extremely flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
Reactivity	No dangerous reactions known under normal conditions of use.
5.3. Advice for firefighters	-
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses. Do not allow the product to be released into the environment.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective equ	Jipment and emergency procedures
General measures	: Use special care to avoid static electric charges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing (dust, vapor, mist, gas). Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Avoid all contact with skin, eyes, or clothing.
6.1.1. For non-emergency personnel	
Protective equipment	: Use appropriate personal protection equipment (PPE).
Emergency procedures	: Evacuate unnecessary personnel.
612 For omorgonou reconcidere	
6.1.2. For emergency responders	. Equip closely arow with proper protection
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Evacuate unnecessary personnel. Ventilate area.
6.2. Environmental precautions	en de sette e M. Par édite des en en en de Para dese
Prevent entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters.
6.3. Methods and material for containme	
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Use only non-sparking tools.
Methods for cleaning up	: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Use only non-sparking tools and equipment in clean-up procedure.
6.4. Reference to other sections	

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Do no eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including	g any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ equipment.
Storage conditions	: Store in a cool, well ventilated and fireproof area. Keep container tightly closed. Keep away from sources of ignition. Keep away from direct sunlight. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition
Incompatible products	: Strong bases. Strong acids. Oxidizing agent. Sources of ignition. Direct sunlight. Heat sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters		
Tech-Bond Debonder		
USA OSHA	OSHA PEL (TWA) (ppm)	1000 Acetone
USA OSHA	OSHA PEL (STEL) (ppm)	1000 Acetone
USA OSHA	OSHA PEL (Ceiling) (ppm)	750 ppm Acetone
acetone (67-64-1)		
USA ACGIH	ACGIH TWA (ppm)	500 ppm
USA ACGIH	ACGIH STEL (ppm)	500 ppm
8.2. Exposure controls		
Appropriate engineering controls		re observed. Gas detectors should be used when eased. Proper grounding procedures to avoid static plosion-proof equipment.
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Avoid all unnecessary exposure.	
Materials for protective clothing	: Wear fire/flame resistant/retardant clothing.	
Hand protection	: Wear protective gloves.	

: Chemical goggles or safety glasses.
: Protective clothing.
: In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate mask.
: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
: Liquid	
: Colorless to pale yellow liquid.	
: Colorless to light yellow.	
: Ketones.	
: 133 – 242°F	
: 2 – 3.52	
: >-4°F	
: ~ 465 °C	
: 0.87-0.95	
: 2.0 – 3.52	
: In water, material is partially soluble. Water: 40 - 80 %	
: 1.8 - 12.8 vol %	

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9.2. Other information

VOC content

: 40% - 80%

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Extremely flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Will not occur. Stable under normal conditions.

10.4. Conditions to avoid

Avoid high temperatures, direct sunlight, open flames, sparks, welding, smoking and other ignition sources. Avoid static charge accumulation and discharge.

10.5. Incompatible materials

Strong bases. Strong acids. Oxidizing agent. Sources of ignition. Direct sunlight. Heat sources.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

acetone (67-64-1)		
LD50 oral rat	5800 mg/kg (Rat; Experimental value,Rat; Experimental value)	
LD50 dermal rabbit	20000 mg/kg (Rabbit; Experimental value, Rabbit; Experimental value)	
LC50 inhalation rat (mg/l)	71 mg/l/4h (76 mg/l/4h; Rat; Rat; Experimental value; Experimental value,76 mg/l/4h; Rat; Rat; Experimental value; Experimental value)	
LC50 inhalation rat (ppm)	30000 ppm/4h (Rat; Experimental value,Rat; Experimental value)	
Propylene carbonate (108-32-7)		
LD50 oral rat	> 20000 mg/kg (Rat)	
LD50 dermal rabbit	> 24000 mg/kg (Rabbit)	

SECTION 12: Ecological information

12.1. Toxicity

acetone (67-64-1)	
LC50 fishes 1	6210 mg/l (96 h; Pimephales promelas; Nominal concentration)
EC50 Daphnia 1	8800 mg/l (48 h; Daphnia pulex)
LC50 fish 2	5540 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
TLM fish 1	13000 ppm (96 h; Gambusia affinis; Turbulent water)
TLM fish 2	> 1000 ppm (96 h; Pisces)
Threshold limit other aquatic organisms 1	3000 mg/l (Plankton)
Threshold limit other aquatic organisms 2	28 mg/l (Protozoa)
Threshold limit algae 1	7500 mg/l (Scenedesmus quadricauda; pH = 7)
Threshold limit algae 2	3400 mg/l (48 h; Chlorella sp.)
Nitromethane (75-52-5)	
LC50 fishes 1	No data available.
EC50 Daphnia 1	No data available.
Threshold limit algae 1	No data available
12.2. Persistence and degradability	
Tech-Bond Debonder	
Persistence and degradability	Not established.
acetone (67-64-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.43 g O ² /g substance
Chemical oxygen demand (COD)	1.92 g O ² /g substance

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acetone (67-64-1)	
ThOD	2.20 g O ² /g substance
BOD (% of ThOD)	(20 day(s)) 0.872
Nitromethane (75-52-5)	
Persistence and degradability	No data available
(BOD)	No data available
Chemical oxygen demand (COD)	No data available
2.3. Bioaccumulative potential	
Tech-Bond Debonder	
Bioaccumulative potential	Not established.
acetone (67-64-1)	
BCF fish 1	0.69 (Pisces)
BCF other aquatic organisms 1	3
Log Pow	-0.24 (Test data)
Bioaccumulative potential	Not bioaccumulative.
nitromethane (75-52-5)	•
Log Pow	Data not available
Bioaccumulative potential	Bioaccumulation: not applicable.
2.4. Mobility in soil	
acetone (67-64-1)	
Surface tension	· 0.0237 N/m
Nitromethane (75-52-5)	
No data availablem	
2.5. Other adverse effects	
other information	: Avoid release to the environment.
ECTION 13: Disposal considerations	S
3.1. Waste treatment methods	
ewage disposal recommendations	: Do not discharge into drains or the environment.
aste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
dditional information	: Handle empty containers with care because residual vapours are flammable.
cology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
n accordance with DOT	· UN1090 Acetone 3 U
n accordance with DOT	: UN1090 Acetone, 3, II UN1281 Nitromethane
n accordance with DOT Transport document description	: UN1090 Acetone, 3, II UN1281 Nitromethane
n accordance with DOT Transport document description I-No.(DOT) : 1090 - Acetone	
n accordance with DOT Transport document description J-No.(DOT) : 1090 - Acetone J-No.(DOT) : 1281 - Nitromethane	UN1281 Nitromethane
n accordance with DOT Transport document description I-No.(DOT) : 1090 - Acetone I-No.(DOT) : 1281 - Nitromethane DOT NA no Acetone	UN1281 Nitromethane : UN1090
n accordance with DOT Transport document description N-No.(DOT) : 1090 - Acetone N-No.(DOT) : 1281 - Nitromethane DOT NA no Acetone DOT Proper Shipping Name	UN1281 Nitromethane : UN1090 : Acetone
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n accordance with DOT Transport document description N-No.(DOT) : 1090 - Acetone N-No.(DOT) : 1281 - Nitromethane OOT NA no Acetone OOT Proper Shipping Name OOT NA no Notromethane OOT Proper Shipping Name OOT Proper Shipping Name Department of Transportation (DOT) Classes	UN1281 Nitromethane : UN1090 : Acetone : UN1290 : Nitromethane Hazard 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 : 3 - Flammable liquids : II - Medium Danger : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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. T4 - 2.65 178.274(d)(2) Normal
n accordance with DOT Transport document description I-No.(DOT) : 1090 - Acetone I-No.(DOT) : 1281 - Nitromethane OOT NA no Acetone OOT Proper Shipping Name OOT NA no Notromethane OOT Proper Shipping Name OOT Proper Shipping Name Department of Transportation (DOT) Classes azard labels (DOT) acking group (DOT) OT Special Provisions (49 CFR 172.102)	UN1281 Nitromethane : UN1090 : Acetone : UN1290 : Nitromethane Hazard 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 : 3 - Flammable liquids : II - Medium Danger : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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. T4 - 2.65 178.274(d)(2) Normal
n accordance with DOT Transport document description N-No.(DOT) : 1090 - Acetone N-No.(DOT) : 1281 - Nitromethane DOT NA no Acetone DOT Proper Shipping Name DOT NA no Notromethane DOT Proper Shipping Name Department of Transportation (DOT) Classes azard labels (DOT) acking group (DOT) OT Special Provisions (49 CFR 172.102)	UN1281 Nitromethane : UN1090 : Acetone : UN1290 : Nitromethane Hazard 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 : 3 - Flammable liquids : II - Medium Danger : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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. T4 - 2.65 178.274(d)(2) Normal

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DOT Packaging Bulk (49 CFR 173.xxx)	: 242
Additional information	
Other information	: No supplementary information available.
ADR	
Packing group	: 11
Class	
Hazard identification number	3 - Flammable liquids 33
Classification code Danger labels (ADR)	F1
Proper shipping name	3 - Flammable liquids
	Acetone, Nitromethane
Transport by sea	
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a
	passenger vessel carrying a number of passengers limited to not more than the larger of 25
	passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section
	is exceeded.
Air transport	
DOT Quantity Limitations Passenger	: 5 L
Aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations	: 60 L
Cargo aircraft only (49 CFR 175.75)	
SECTION 15: Regulatory information	n
15.1. US Federal regulations	
Tech-Bond Debonder	
SARA Section 311/312 Hazard Classes	Fire hazard
	Immediate (acute) health hazard
acetone (67-64-1)	
Listed on the United States TSCA (Toxic Subs RQ (Reportable quantity, section 304 of EPA's	
List of Lists) :	
Nitromethane (75-52-5)	
Nitromethane (75-52-5) Listed on the United States TSCA (Toxic Subs	stances Control Act) inventory
	stances Control Act) inventory
Listed on the United States TSCA (Toxic Subs	stances Control Act) inventory
Listed on the United States TSCA (Toxic Subs 15.2. International regulations	stances Control Act) inventory
Listed on the United States TSCA (Toxic Subs 15.2. International regulations CANADA Acetone (67-64-1) Listed on the Canadian DSL (Domestic Substar	nces List) inventory.
Listed on the United States TSCA (Toxic Subs 15.2. International regulations CANADA Acetone (67-64-1)	nces List) inventory. Class B Division 2 - Flammable Liquid Class D Division 2
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Listed on the United States TSCA (Toxic Subs 15.2. International regulations CANADA Acetone (67-64-1) Listed on the Canadian DSL (Domestic Substar 'WHMIS Classification Nitromethane (75-52-5)	nces List) inventory. Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Listed on the United States TSCA (Toxic Subs 15.2. International regulations CANADA Acetone (67-64-1) Listed on the Canadian DSL (Domestic Substar 'WHMIS Classification	nces List) inventory. Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects ances List) inventory. Class B Division 2 - Flammable Liquid Class D Division 2
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Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11 Xi; R36 R66 R67 15.2.2. National regulations Acetone (67-64-1); Nitromethane (75-52-5) Both substances are listed on the Canadian Ingredient Disclosure List

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15.3. US State regulations

acetone (67-64-1) & nitromethane (76-52-5)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
Skin Irritant 2	May cause skin irritation
H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation
H336	May cause drowsiness, dizziness
H315	May cause skin irritation

HMIS III Rating

Health	:	2 Moderate Hazard - Temporary or minor injury may occur
Flammability	:	3 Serious Hazard
Physical	:	0 Minimal Hazard

SDS US (GHS HazCom 2012)

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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