

### SAFETY DATA SHEET EPO-TEK® H77 Part A

1. Identification	
Product identifier	
Product name	EPO-TEK® H77 Part A
Product number	H77/A
Recommended use of the chemical and restrictions on use	
Application	Adhesive.
Uses advised against	Use only for intended applications.
Details of the supplier of the s	afety data sheet
Supplier	Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA (978) 667-3805 (978) 663-9782 www.epotek.com, SDS@epotek.com
Emergency telephone number	<u>r</u>
Emergency telephone	ChemTel: +1 (800) 255-3924, +1 (813) 248-0585
2. Hazard(s) identification	
Classification of the substance	e or mixture
Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317
Environmental hazards	Aquatic Chronic 3 - H412
Label elements	
Hazard symbols	
Signal word	Danger
Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.

Precautionary statements	<ul> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P302+P352 If on skin: Wash with plenty of water.</li> <li>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P362+P364 Take off contaminated clothing and wash it before reuse.</li> <li>P501 Dispose of contents/ container in accordance with national regulations.</li> </ul>
Contains	Bisphenol A Diglycidyl Ether Resin, Reactive Diluent
Other hazards	
Harmful dust may be release	ed during cutting or grinding process.
Hazards not otherwise classified (HNOC)	Contains epoxy constituents. May produce an allergic reaction.
3. Composition/information of	n ingredients
Mixtures	
Bisphenol A Diglycidyl Ethe	r Resin 10-30%
CAS number: 25085-99-8	
Classification	
Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
Reactive Diluent	5-10%
CAS number: Proprietary	
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	

Eye Dam. 1 - H318 Skin Sens. 1 - H317

The full text for all hazard statements is displayed in Section 16.

#### 4. First-aid measures

Description of first aid measures		
Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.	
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.	
Skin Contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.	
Eye contact	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.	

### Most important symptoms and effects, both acute and delayed

wost important symptoms and	
Inhalation	Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract. Gas or vapor in high concentrations may irritate the respiratory system.
Ingestion	May cause discomfort if swallowed.
Skin contact	Causes skin irritation. May cause an allergic skin reaction. May cause sensitisation by skin contact.
Eye contact	Causes serious eye damage.
Indication of immediate medica	al attention and special treatment needed
Notes for the doctor	Treat symptomatically.
5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	Dry chemicals. Foam. Water spray.
Special hazards arising from the	ne substance or mixture
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapors.
Special protective equipment	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective
for firefighters	clothing.
	clothing.
for firefighters 6. Accidental release measure	clothing.
for firefighters 6. Accidental release measure	clothing.
for firefighters 6. Accidental release measure Personal precautions, protection	clothing.  s ve equipment and emergency procedures Wear protective clothing as described in Section 8 of this safety data sheet. Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin and
for firefighters 6. Accidental release measure Personal precautions, protectiv Personal precautions	clothing.  s ve equipment and emergency procedures Wear protective clothing as described in Section 8 of this safety data sheet. Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin and
for firefighters 6. Accidental release measure Personal precautions, protectiv Personal precautions Environmental precautions	clothing.         s         ve equipment and emergency procedures         Wear protective clothing as described in Section 8 of this safety data sheet. Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin and eyes.         Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment.
for firefighters 6. Accidental release measure Personal precautions, protectiv Personal precautions Environmental precautions Environmental precautions	clothing.         s         ve equipment and emergency procedures         Wear protective clothing as described in Section 8 of this safety data sheet. Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin and eyes.         Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment.
for firefighters 6. Accidental release measure Personal precautions, protectiv Personal precautions Environmental precautions Environmental precautions Methods and material for conta	clothing.         s         ve equipment and emergency procedures         Wear protective clothing as described in Section 8 of this safety data sheet. Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin and eyes.         Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment.         ainment and cleaning up         Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering
for firefighters 6. Accidental release measure Personal precautions, protectiv Personal precautions Environmental precautions Environmental precautions Methods and material for conta Methods for cleaning up	clothing.         s         ve equipment and emergency procedures         Wear protective clothing as described in Section 8 of this safety data sheet. Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin and eyes.         Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment.         ainment and cleaning up         Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.
for firefighters 6. Accidental release measure Personal precautions, protectiv Personal precautions Environmental precautions Environmental precautions Methods and material for conta Methods for cleaning up Reference to other sections	clothing.         s         ve equipment and emergency procedures         Wear protective clothing as described in Section 8 of this safety data sheet. Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin and eyes.         Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment.         ainment and cleaning up         Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

Advice on general occupational hygiene	Provide eyewash station. Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated. Wash after use and before eating, smoking and using the toilet. Wash contaminated clothing before reuse. Use appropriate skin cream to prevent drying of skin.	
Conditions for safe storage, including any incompatibilities		
Storage precautions	Store at room temperature. Keep container tightly sealed when not in use.	
Storage class	Chemical storage.	
Specific end uses(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.	
8. Exposure controls/Persona	I protection	
Ingredient comments	No exposure limits known for ingredient(s).	
Exposure controls		
Protective equipment		
Appropriate engineering controls	Provide adequate general and local exhaust ventilation.	
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.	
Hand protection	It is recommended that chemical-resistant, impervious gloves are worn.	
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.	
Hygiene measures	Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.	
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.	
9. Physical and chemical prop	perties	
Information on basic physical	and chemical properties	
Appearance	Paste.	
Color	Grey.	
Odor	Mild.	
Odor threshold	No specific test data are available.	
рН	No specific test data are available.	
Melting point	No specific test data are available.	
Initial boiling point and range	No specific test data are available.	
Flash point	> 93°C	
Evaporation rate	<buac< th=""></buac<>	
Evaporation factor	No specific test data are available.	

Flammability (solid, gas)	No specific test data are available.
Vapor pressure	No specific test data are available.
Vapor density	>1
Relative density	No specific test data are available.
Bulk density	No specific test data are available.
Solubility(ies)	Slightly soluble in water.
Partition coefficient	No specific test data are available.
Auto-ignition temperature	No specific test data are available.
Decomposition Temperature	No specific test data are available.
Viscosity	No specific test data are available.
Other information	None.
10. Stability and reactivity	
Reactivity	The following materials may react violently with the product: Acids. Alkalis. Strong oxidizing agents.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Will not polymerize.
Conditions to avoid	Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition.
Materials to avoid	Strong acids. Strong alkalis. Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
11. Toxicological information	
Information on toxicological eff	iects
Acute toxicity - oral ATE oral (mg/kg)	7,795.67
	7,735.07
Acute toxicity - dermal ATE dermal (mg/kg)	17,550.15
Acute toxicity - inhalation	
ATE inhalation (gases ppm)	68,489.79
ATE inhalation (vapours mg/l)	175.5
ATE inhalation (dusts/mists mg/l)	24.21
Inhalation	Gas or vapor in high concentrations may irritate the respiratory system. Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract.

Ingestion	May cause discomfort if swallowed.
Skin Contact	Causes skin irritation. May cause an allergic skin reaction. May cause sensitisation by skin contact.
Eye contact	Causes serious eye damage.
12. Ecological information	
Ecotoxicity	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Acute aquatic toxicity Acute toxicity - fish	Not available.
Persistence and degradability Persistence and degradability	The product is moderately biodegradable.
Bioaccumulative potential	
Bio-Accumulative Potential	The product contains potentially bioaccumulating substances.
Partition coefficient	No specific test data are available.
Mobility in soil	
Mobility	Semi-mobile.
Other adverse effects	
Other adverse effects	Not known.
13. Disposal considerations	
Waste treatment methods	
-	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Waste treatment methods	
Waste treatment methods Disposal methods	
Waste treatment methods Disposal methods 14. Transport information	Iocal Waste Disposal Authority. The product is not covered by international regulations on the transport of dangerous goods
Waste treatment methods Disposal methods 14. Transport information General	Iocal Waste Disposal Authority. The product is not covered by international regulations on the transport of dangerous goods
Waste treatment methods Disposal methods 14. Transport information General UN Number	Iocal Waste Disposal Authority. The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
Waste treatment methodsDisposal methods14. Transport informationGeneralUN NumberUN No. (International)	Iocal Waste Disposal Authority. The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT). Not applicable.
Waste treatment methodsDisposal methods14. Transport informationGeneralUN NumberUN No. (International)UN No. (DOT)UN proper shipping nameProper shipping name	local Waste Disposal Authority. The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT). Not applicable. Not applicable.
Waste treatment methodsDisposal methods14. Transport informationGeneralUN NumberUN No. (International)UN No. (DOT)UN proper shipping nameProper shipping name(International)	local Waste Disposal Authority. The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT). Not applicable. Not applicable. Not applicable.
Waste treatment methodsDisposal methods14. Transport informationGeneralUN NumberUN No. (International)UN No. (DOT)UN proper shipping nameProper shipping name(International)Proper shipping name(International)Proper shipping name(International)Proper shipping name(International)Proper shipping name(International)Proper shipping name(International)Proper shipping name(DOT)	local Waste Disposal Authority. The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT). Not applicable. Not applicable. Not applicable.
Waste treatment methodsDisposal methods14. Transport informationGeneralUN NumberUN No. (International)UN No. (International)UN No. (DOT)UN proper shipping nameProper shipping name(International)Proper shipping name(International)Proper shipping name(International)Proper shipping name(International)Proper shipping name (DOT)Transport hazard class(es)Transport Labels	local Waste Disposal Authority. The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT). Not applicable. Not applicable. Not applicable. Not applicable. Not ransport warning sign required.

Packing group (International)	Not applicable.
DOT packing group	Not applicable.
Environmental hazards	
Environmentally Hazardous Su No.	ubstance
Special precautions for user	
Not applicable.	
DOT reportable quantity	Not applicable.
DOT TIH Zone	Not applicable.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
15. Regulatory information	
Regulatory References	Proprietary information protected pursuant to WTO's Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS), Section 7, Art. 39.
None of the ingredients are residual SARA Extremely Hazardous S None of the ingredients are residual SARA 313 Emission Reporting None of the ingredients are residual SARA 313 Emission Reporting None of the ingredients are residual SARA Accidental Release Prevent None of the ingredients are residual SARA Highly Hazardous Cher None of the ingredients are residual State Regulations	Aus Substances/Reportable Quantities (EPA) quired to be listed. Substances EPCRA Reportable Quantities quired to be listed. g quired to be listed. ention quired to be listed. enticals quired to be listed. enticals quired to be listed. enticals quired to be listed.
None of the ingredients are re California Air Toxics "Hot Spot	quired to be listed. ts" (A-II)
None of the ingredients are re Massachusetts "Right To Kno None of the ingredients are re	w" List

#### Rhode Island "Right To Know" List

None of the ingredients are required to be listed.

# Minnesota "Right To Know" List

None of the ingredients are required to be listed.

#### New Jersey "Right To Know" List

None of the ingredients are required to be listed.

Pennsylvania "Right To Know" List None of the ingredients are required to be listed.

#### Inventories

**EU - EINECS/ELINCS** Some of the ingredients are listed or exempt.

#### Canada - DSL/NDSL

All the ingredients are listed or exempt.

#### US - TSCA All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification None of the ingredients are listed.

Australia - AICS All the ingredients are listed or exempt.

Japan - ENCS Some of the ingredients are listed or exempt.

Korea - KECI All the ingredients are listed or exempt.

China - IECSC All the ingredients are listed or exempt.

#### **Philippines - PICCS**

All the ingredients are listed or exempt.

#### 16. Other information

Revision date	4/7/2020
Revision	3
Supersedes date	7/27/2016
Hazard statements in full	<ul> <li>H302 Harmful if swallowed.</li> <li>H312 Harmful in contact with skin.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Epoxy Technology, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Epoxy Technology, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.



### SAFETY DATA SHEET EPO-TEK® H77 Part B

1. Identification	
Product identifier	
Product name	EPO-TEK® H77 Part B
Product number	Н77/В
Recommended use of the chemical and restrictions on use	
Application	Adhesive.
Uses advised against	Use only for intended applications.
Details of the supplier of the s	afety data sheet
Supplier	Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA (978) 667-3805 (978) 663-9782 www.epotek.com, SDS@epotek.com
Emergency telephone number	
Emergency telephone	ChemTel: +1 (800) 255-3924, +1 (813) 248-0585
2. Hazard(s) identification	
Classification of the substance	e or mixture
Physical hazards	Not Classified
Health hazards	Eye Dam. 1 - H318 Resp. Sens. 1 - H334 Skin Sens. 1 - H317
Environmental hazards	Not Classified
Label elements	
Hazard symbols	
Signal word	Danger
Hazard statements	H318 Causes serious eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction.

Precautionary statements	<ul> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P284 In case of inadequate ventilation wear respiratory protection.</li> <li>P302+P352 If on skin: Wash with plenty of water.</li> <li>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P501 Dispose of contents/ container in accordance with national regulations.</li> </ul>
Contains	Substituted Anhydride, Phthalic Anhydride

### 3. Composition/information on ingredients

### Mixtures

Substituted Anhydride 60-	-100%
CAS number: Proprietary	
Classification	
Eye Dam. 1 - H318	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
Phthalic Anhydride	1-5%
CAS number: 85-44-9	
Classification	
Acute Tox. 4 - H302	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Resp. Sens. 1 - H334 Skin Sens. 1 - H317	
STOT SE 3 - H335	
Imidazole	1-5%
CAS number: Proprietary	
Classification	
Acute Tox. 4 - H302	
Skin Irrit. 2 - H315	

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Eye Irrit. 2 - H319 STOT SE 3 - H335

#### Description of first aid measures

Inhalation	Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.

Skin Contact	Remove affected person from source of contamination. Remove contaminated clothing. Rinse immediately with plenty of water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
Most important symptoms and	effects, both acute and delayed
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Ingestion	May cause discomfort if swallowed.
Skin contact	May cause sensitisation by skin contact. Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Causes serious eye damage.
Indication of immediate medic	al attention and special treatment needed
Notes for the doctor	Treat symptomatically.
5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	Dry chemicals. Foam. Water spray.
Special hazards arising from the substance or mixture	
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapors.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
6. Accidental release measures	
Personal precautions, protecti	ve equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
Environmental precautions	
Environmental precautions	Avoid release to the environment.
Methods and material for containment and cleaning up	
Methods for cleaning up	Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.
Reference to other sections	For personal protection, see Section 8.
7. Handling and storage	
Precautions for safe handling	
Usage precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Handle all packages and containers carefully to minimize spills. Avoid inhalation of vapors and contact with skin and eyes.

Advice on general occupational hygiene	Provide eyewash station. Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated. Wash after use and before eating, smoking and using the toilet. Wash contaminated clothing before reuse. Use appropriate skin cream to prevent drying of skin.
Conditions for safe storage, including any incompatibilities	
Storage precautions	Store at room temperature. Keep container tightly sealed when not in use.
Storage class	Chemical storage.
Specific end uses(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.
8. Exposure controls/Personal protection	

### Control parameters Occupational exposure limits

#### Phthalic Anhydride

Long-term exposure limit (8-hour TWA): ACGIH 1 ppm Short-term exposure limit (15-minute): ACGIH ACGIH = American Conference of Governmental Industrial Hygienists.

#### Exposure controls

#### Protective equipment

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Appropriate engineering controls	Provide adequate general and local exhaust ventilation.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.
Hand protection	It is recommended that chemical-resistant, impervious gloves are worn.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.
9. Physical and chemical properties	

### Information on basic physical and chemical properties

Appearance	Liquid.
Color	Amber.
Odor	Mild.
Odor threshold	No specific test data are available.
рН	No specific test data are available.
Melting point	No specific test data are available.

Initial boiling point and range	No specific test data are available.
Flash point	>93°C
Evaporation rate	< BuAc
Evaporation factor	No specific test data are available.
Flammability (solid, gas)	No specific test data are available.
Upper/lower flammability or explosive limits	No specific test data are available.
Vapor pressure	No specific test data are available.
Vapor density	> 1
Relative density	No specific test data are available.
Bulk density	No specific test data are available.
Solubility(ies)	Slightly soluble in water.
Partition coefficient	No specific test data are available.
Auto-ignition temperature	No specific test data are available.
Decomposition Temperature	No specific test data are available.
Viscosity	No specific test data are available.
Other information	None.
10. Stability and reactivity	
To: Olability and readavity	
Reactivity	The following materials may react violently with the product: Acids. Alkalis. Strong oxidizing agents. Strong reducing agents.
Reactivity	agents. Strong reducing agents.
Reactivity Stability Possibility of hazardous	agents. Strong reducing agents. Stable at normal ambient temperatures and when used as recommended.
Reactivity Stability Possibility of hazardous reactions	agents. Strong reducing agents. Stable at normal ambient temperatures and when used as recommended. Will not polymerize. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or
Reactivity Stability Possibility of hazardous reactions Conditions to avoid	agents. Strong reducing agents. Stable at normal ambient temperatures and when used as recommended. Will not polymerize. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.
Reactivity Stability Possibility of hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition	agents. Strong reducing agents. Stable at normal ambient temperatures and when used as recommended. Will not polymerize. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight. Strong acids. Strong alkalis. Strong oxidizing agents. Strong reducing agents. Thermal decomposition or combustion products may include the following substances:
Reactivity Stability Possibility of hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition products	agents. Strong reducing agents. Stable at normal ambient temperatures and when used as recommended. Will not polymerize. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight. Strong acids. Strong alkalis. Strong oxidizing agents. Strong reducing agents. Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx).
Reactivity Stability Possibility of hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition products 11. Toxicological information Information on toxicological ef Acute toxicity - oral	agents. Strong reducing agents. Stable at normal ambient temperatures and when used as recommended. Will not polymerize. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight. Strong acids. Strong alkalis. Strong oxidizing agents. Strong reducing agents. Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx). fects
Reactivity Stability Possibility of hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition products 11. Toxicological information Information on toxicological ef	agents. Strong reducing agents. Stable at normal ambient temperatures and when used as recommended. Will not polymerize. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight. Strong acids. Strong alkalis. Strong oxidizing agents. Strong reducing agents. Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx).
Reactivity Stability Possibility of hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition products 11. Toxicological information Information on toxicological ef Acute toxicity - oral	agents. Strong reducing agents. Stable at normal ambient temperatures and when used as recommended. Will not polymerize. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight. Strong acids. Strong alkalis. Strong oxidizing agents. Strong reducing agents. Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx). fects 7,331.38
Reactivity Stability Possibility of hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition products 11. Toxicological information Information on toxicological eff Acute toxicity - oral ATE oral (mg/kg)	agents. Strong reducing agents. Stable at normal ambient temperatures and when used as recommended. Will not polymerize. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight. Strong acids. Strong alkalis. Strong oxidizing agents. Strong reducing agents. Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx). fects

Skin Contact	May cause sensitisation by skin contact. Prolonged skin contact may cause redness and irritation.
Eye contact	Causes serious eye damage.
12. Ecological information	
Acute aquatic toxicity Acute toxicity - fish	No information available.
Persistence and degradability Persistence and degradability	No data available.
Bioaccumulative potential	
Bio-Accumulative Potential	No data available on bioaccumulation.
Partition coefficient	No specific test data are available.
<u>Mobility in soil</u> Mobility	The product has poor water-solubility.
Other adverse effects	
Other adverse effects	Not known.
13. Disposal considerations	
Waste treatment methods	
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
14. Transport information	
14. Transport information General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
<u> </u>	
General	
General UN Number	(IMDG, IATA, DOT).
General <u>UN Number</u> UN No. (International)	(IMDG, IATA, DOT). Not applicable.
General <u>UN Number</u> UN No. (International) UN No. (DOT)	(IMDG, IATA, DOT). Not applicable.
General <u>UN Number</u> UN No. (International) UN No. (DOT) <u>UN proper shipping name</u> Proper shipping name	(IMDG, IATA, DOT). Not applicable. Not applicable.
General <u>UN Number</u> UN No. (International) UN No. (DOT) <u>UN proper shipping name</u> Proper shipping name (International)	(IMDG, IATA, DOT). Not applicable. Not applicable.
General <u>UN Number</u> UN No. (International) UN No. (DOT) <u>UN proper shipping name</u> Proper shipping name (International) Proper shipping name (DOT)	(IMDG, IATA, DOT). Not applicable. Not applicable.
General <u>UN Number</u> UN No. (International) UN No. (DOT) <u>UN proper shipping name</u> Proper shipping name (International) Proper shipping name (DOT) <u>Transport hazard class(es)</u> Transport Labels	(IMDG, IATA, DOT). Not applicable. Not applicable. Not applicable. Not applicable.
General <u>UN Number</u> UN No. (International) UN No. (DOT) <u>UN proper shipping name</u> Proper shipping name (International) Proper shipping name (DOT) <u>Transport hazard class(es)</u> Transport Labels (International) DOT transport labels	(IMDG, IATA, DOT). Not applicable. Not applicable. Not applicable. Not applicable.
General UN Number UN No. (International) UN No. (DOT) UN proper shipping name Proper shipping name (International) Proper shipping name (DOT) Transport hazard class(es) Transport Labels (International) DOT transport labels No transport warning sign required	(IMDG, IATA, DOT). Not applicable. Not applicable. Not applicable. Not applicable.
General UN Number UN No. (International) UN No. (DOT) UN proper shipping name Proper shipping name (International) Proper shipping name (DOT) Transport hazard class(es) Transport Labels (International) DOT transport labels No transport warning sign required Packing group	(IMDG, IATA, DOT). Not applicable. Not applicable. Not applicable. Not ransport warning sign required.

# **Environmentally Hazardous Substance** No. Special precautions for user Not applicable. DOT reportable quantity Not applicable. DOT TIH Zone Not applicable. Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information Proprietary information protected pursuant to WTO's Agreement on Trade-Related Aspects of **Regulatory References** Intellectual Property Rights (TRIPS), Section 7, Art. 39. **US Federal Regulations** SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities None of the ingredients are listed. CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA) The following ingredients are listed: Phthalic Anhydride 5,000 lbs (2270 Kg) SARA Extremely Hazardous Substances EPCRA Reportable Quantities None of the ingredients are listed. SARA 313 Emission Reporting The following ingredients are listed: Phthalic Anhydride **CAA Accidental Release Prevention** None of the ingredients are listed. **OSHA Highly Hazardous Chemicals** None of the ingredients are listed. **US State Regulations** California Proposition 65 Carcinogens and Reproductive Toxins None of the ingredients are listed. California Air Toxics "Hot Spots" (A-I) The following ingredients are listed: Phthalic Anhydride California Air Toxics "Hot Spots" (A-II) None of the ingredients are listed. Massachusetts "Right To Know" List The following ingredients are listed:

Phthalic Anhydride

Rhode Island "Right To Know" List

The following ingredients are listed:

Phthalic Anhydride

#### Minnesota "Right To Know" List

The following ingredients are listed:

Phthalic Anhydride

New Jersey "Right To Know" List The following ingredients are listed:

Phthalic Anhydride

Pennsylvania "Right To Know" List The following ingredients are listed:

Phthalic Anhydride

**EU - EINECS/ELINCS** All the ingredients are listed or exempt.

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

None of the ingredients are listed.

Australia - AICS Some of the ingredients are listed or exempt.

Japan - ENCS Some of the ingredients are listed or exempt.

Korea - KECI Some of the ingredients are listed or exempt.

China - IECSC All the ingredients are listed or exempt.

Philippines - PICCS Some of the ingredients are listed or exempt.

16. Other information	
Revision date	4/7/2020
Revision	3
Supersedes date	7/27/2016

Hazard statements in full	H302 Harmful if swallowed. H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H318 Causes serious eye damage.
	H319 Causes serious eye irritation.
	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335 May cause respiratory irritation.

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