

# SAFETY DATA SHEET

Issue Date 4-Apr-2022

Revision Date 4-Apr-2022

Version 1

## **1. IDENTIFICATION**

Product identifier Product Name	Fusionbond 379A
Other means of identification Product Code UN/ID no. Synonyms	MS-379A UN1133 None
Recommended use of the chemical Recommended Use Uses advised against	<u>and restrictions on use</u> Adhesives. None known
Details of the supplier of the safety Manufacturer Address Hernon Manufacturing Inc. 121 Tech Drive	data sheet
Sanford, FL 32771 800-527-0004 Emergency telephone number	

## **Company Phone Number**

**Emergency Telephone** 

407-322-4000 Chemtel 800-255-3924

## 2. HAZARDS IDENTIFICATION

#### **Classification**

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 2

#### Label elements

#### **Emergency Overview**

## Danger

Hazard statements Causes severe skin burns and eye damage May cause an allergic skin reaction May cause respiratory irritation May cause damage to organs through prolonged or repeated exposure Highly flammable liquid and vapor



Ground/bond container and receiving equipment Use only non-sparking tools Take precautionary measures against static discharge Use explosion-proof electrical/ ventilating / lighting / equipment Keep cool

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician 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 or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Rinse mouth. DO NOT induce vomiting In case of fire: Use CO2, dry chemical, or foam for extinction

#### Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### **Other Information**

May be harmful if swallowed May be harmful in contact with skin. Harmful to aquatic life with long lasting effects Toxic to aquatic life.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
METHYL METHACRYLATE	80-62-6	30 - 60	*
METHACRYLIC ACID	79-41-4	5 - 10	*
POLYETHYLENE GLYCOL DIMETHACRYLATE	25852-47-5	5 - 10	*
T-BUTYL PERBENZOATE	614-45-9	1 - 5	*
BUTYLENE GLYCOL DIMETHACRYLATE, 1, 3	1189-08-8	1 - 5	*
BUTYL HYDROXY TOLUENE	128-37-0	1 - 5	*
CUMENE HYDROPEROXIDE	80-15-9	1 - 5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### **4. FIRST AID MEASURES**

#### Description of first aid measures

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Avoid contact with skin and eyes. Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. In the case of skin irritation or allergic reactions see a physician.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed No information available. Symptoms

Indication of any immediate medical attention and special treatment needed Note to physicians Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

#### Suitable extinguishing media

Dry chemical.

Unsuitable extinguishing media No information available.

#### Specific hazards arising from the chemical

Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.). Vapors may travel to source of ignition and flash back.

Hazardous combustion Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons. Aldehydes. Organic acids. products

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

protective gear.

RELEASE MEASURES	Ī
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Personal precautions, protective ed	guipment and emergency procedures	
Personal precautions	Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.	
For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	Do not allow into any sewer, on the ground or into any body of water. See section 12 for additional ecological information.	
Methods and material for containm	ent and cleaning up	
Methods for containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.	
Methods for cleaning up	Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. Immediately contact emergency personnel. Keep unnecessary personnel away. Avoid contact with material.	
	7. HANDLING AND STORAGE	
Precautions for safe handling Advice on safe handling	Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wash thoroughly after handling. Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).	
Conditions for safe storage, includ Storage Conditions	ing any incompatibilities Keep at temperatures between 46°F and 82°F (8°C and 28°C).	
Incompatible materials	Oxidizing agents. Strong alkalis. Strong acids. Strong bases. Amines.	

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### **Exposure Guidelines**

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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
METHYL METHACRYLATE 80-62-6	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 410 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 410 mg/m <sup>3</sup>	IDLH: 1000 ppm TWA: 100 ppm TWA: 410 mg/m <sup>3</sup>
METHACRYLIC ACID 79-41-4	TWA: 20 ppm	(vacated) TWA: 20 ppm (vacated) TWA: 70 mg/m <sup>3</sup> (vacated) S*	TWA: 20 ppm TWA: 70 mg/m <sup>3</sup>
BUTYL HYDROXY TOLUENE 128-37-0	TWA: 2 mg/m <sup>3</sup> inhalable fraction and vapor	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>

Appropriate engineering controls Engineering Controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear protective gloves and protective clothing. Use rubber or plastic 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.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.
ç	. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	No information available	Odor	Pungent
Color	light blue	Odor threshold	No information available
Property	Values	Remarks • Method	
рН	Does not apply		
Melting point / freezing point	No information available		
Boiling point / boiling range	No information available		
Flash point	No information available		
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		
Vapor pressure	No information available		
Vapor density	No information available		
Relative density	No information available		
Water solubility	No information available		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition temperature	No information available		
Decomposition temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		
Other Information			
Softening point	No information available		
Molecular weight	No information available		
VOC Content (%)	No information available		
Density	No information available		

**Bulk density** 

No information available

## **10. STABILITY AND REACTIVITY**

Reactivity

No data available

#### Chemical stability

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

Hazardous polymerization may occur.

Hazardous polymerization Hazardous polymerization may occur.

#### **Conditions to avoid**

Keep away from heat, sparks and open flame. Excessive heat. Extremes of temperature and direct sunlight.

#### **Incompatible materials**

Oxidizing agents. Strong alkalis. Strong acids. Strong bases. Amines.

#### **Hazardous Decomposition Products**

None.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information

Inhalation	No data available.
Eye contact	No data available.
Skin contact	No data available.
Ingestion	No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
METHYL METHACRYLATE 80-62-6	8420 - 10000 mg/kg (Rat)	5000 - 7500 mg/kg (Rabbit)	= 7093 ppm (Rat) 4 h
METHACRYLIC ACID 79-41-4	= 1060 mg/kg(Rat)	500 - 1000 mg/kg (Rabbit)	= 7.1 mg/L (Rat)4 h
T-BUTYL PERBENZOATE 614-45-9	= 1012 mg/kg (Rat)	-	-
BUTYL HYDROXY TOLUENE 128-37-0	> 2930 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
CUMENE HYDROPEROXIDE 80-15-9	= 382 mg/kg (Rat)	= 0.126 mL/kg (Rabbit)	= 220 ppm (Rat)4 h

#### Information on toxicological effects

Symptoms

No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ cell mutagenicity Carcinogenicity	No informatic No informatic No informatic	on available.		
Chemical Name	ACGIH	IARC	NTP	OSHA
METHYL METHACRYLATE 80-62-6	-	Group 3	-	-
BUTYL HYDROXY TOLUENE 128-37-0	-	Group 3	-	-
Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard	No information No information	No information available. No information available. No information available. No information available.		

#### Numerical measures of toxicity - Product Information

#### The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	2,904.40	mg/kg
ATEmix (dermal)	3,446.30	mg/kg mg/l

## **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
METHYL METHACRYLATE 80-62-6	170: 96 h Pseudokirchneriella subcapitata mg/L EC50	125.5 - 190.7: 96 h Pimephales promelas mg/L LC50 static 153.9 - 341.8: 96 h Lepomis macrochirus mg/L LC50 static 170 - 206: 96 h Lepomis macrochirus mg/L LC50 flow- through 243 - 275: 96 h Pimephales promelas mg/L LC50 flow-through 326.4 - 426.9: 96 h Poecilia reticulata mg/L LC50 static 79: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 79: 96 h Oncorhynchus mykiss mg/L LC50 static	69: 48 h Daphnia magna mg/L EC50
METHACRYLIC ACID 79-41-4	-	85: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	-
T-BUTYL PERBENZOATE 614-45-9	-	1.6: 96 h Danio rerio mg/L LC50 semi-static	-
BUTYL HYDROXY TOLUENE 128-37-0	6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50	-	-
CUMENE HYDROPEROXIDE 80-15-9	-	3.9: 96 h Oncorhynchus mykiss mg/L LC50 static	-

## Persistence and degradability

No information available.

## **Bioaccumulation**

Chemical Name	Partition coefficient
METHYL METHACRYLATE 80-62-6	0.7

METHACRYLIC ACID 79-41-4	0.93
BUTYL HYDROXY TOLUENE 128-37-0	4.17

Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** 

Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
METHYL METHACRYLATE	U162	Included in waste stream:	-	U162
80-62-6		F039		
CUMENE	-	-	-	U096
HYDROPEROXIDE				
80-15-9				

Chemical Name	California Hazardous Waste Status
METHYL METHACRYLATE	Toxic
80-62-6	Ignitable
T-BUTYL PERBENZOATE	Ignitable
614-45-9	Reactive
CUMENE HYDROPEROXIDE	Toxic
80-15-9	Ignitable

## 14. TRANSPORT INFORMATION

DOT	
UN/ID no.	UN1133
Proper shipping name	Adhesives
Hazard Class	3
Packing Group	II
Special Provisions	(Not more than 5L) Consumer Commodity ORM-D
Marine pollutant	None known.
IATA	
UN/ID no.	UN1133
Proper shipping name	Adhesives
Hazard Class	3
Packing Group	II
Special Provisions	None
IMDG	
UN/ID no.	UN1133
Proper shipping name	Adhesives
Hazard Class	3

Packing Group	II
Special Provisions	None
Marine pollutant	None

## **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

All ingredients are on the inventory or are exempt from listing.

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
METHYL METHACRYLATE - 80-62-6	1.0
CUMENE HYDROPEROXIDE - 80-15-9	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard	-
Chronic Health Hazard	-
Fire hazard	-
Sudden release of pressure hazard	-
Reactive Hazard	-

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
METHYL METHACRYLATE 80-62-6	1000 lb	-	-	Х

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
METHYL METHACRYLATE	1000 lb	-	RQ 1000 lb final RQ
80-62-6			RQ 454 kg final RQ
CUMENE HYDROPEROXIDE	10 lb	-	RQ 10 lb final RQ
80-15-9			RQ 4.54 kg final RQ

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
METHYL METHACRYLATE 80-62-6	Х	X	X
METHACRYLIC ACID 79-41-4	Х	X	X
T-BUTYL PERBENZOATE 614-45-9	Х	X	X
BUTYL HYDROXY TOLUENE 128-37-0	Х	X	X
CUMENE HYDROPEROXIDE 80-15-9	Х	X	X

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards -	Flammability -	Instability -	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards -	Flammability -	Physical hazards -	Personal protection -
Prepared By	SDS coo	ordinator		
Issue Date	04-Apr-2	2022		
Revision Date	04-Apr-2022			
Revision Note	No inforr	nation available		

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



# SAFETY DATA SHEET

Issue Date 4-Apr-2022

Revision Date 4-Apr-2022

Version 1

## **1. IDENTIFICATION**

Product identifier Product Name	Fusionbond 379B
Other means of identification Product Code UN/ID no.	MS-379B UN1133
Synonyms <u>Recommended use of the chemical</u> Recommended Use Uses advised against	None and restrictions on use Adhesives. None known
Uses advised against <u>Details of the supplier of the safety</u> Manufacturer Address	
Hernon Manufacturing Inc. 121 Tech Drive Sanford, FL 32771 800-527-0004	
Emergency telephone number	

#### Emergency telephone number Company Phone Number Emergency Telephone

407-322-4000 Chemtel 800-255-3924

## 2. HAZARDS IDENTIFICATION

#### **Classification**

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

#### Label elements

#### **Emergency Overview**

#### Danger

Hazard statements Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction Suspected of causing cancer May cause respiratory irritation Highly flammable liquid and vapor



Take precautionary measures against static discharge

Use explosion-proof electrical/ ventilating / lighting/ .? / equipment Keep cool

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention If skin irritation or rash occurs: Get medical advice/attention IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing In case of fire: Use CO2, dry chemical, or foam for extinction

#### Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### **Other Information**

May be harmful if swallowed May be harmful in contact with skin. Harmful to aquatic life

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
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METHYL METHACRYLATE	80-62-6	60 - 100	*	
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	34562-31-7	1 - 5	*	
CARBON BLACK	1333-86-4	0.1 - 1	*	
*The event percentage (concentration) of compacities have been withheld on a trade accent				

The exact percentage (concentration) of composition has been withheld as a trade secret.

## **4. FIRST AID MEASURES**

<u>Description of first aid measures</u> Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash with soap and water. Flush skin with water for several minutes. Remove contaminated clothing and shoes. If irritation develops, seek medical attention. Wash clothing before reuse.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms and effe Symptoms	No information available.

Indication of any immediate medical attention and special treatment neededNote to physiciansTreat symptomatically.

**5. FIRE-FIGHTING MEASURES** 

#### Suitable extinguishing media

Dry chemical.

Unsuitable extinguishing media No information available.

#### Specific hazards arising from the chemical

Flammable.

Hazardous combustion Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons. Aldehydes. Organic acids. products

#### Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.		
Environmental precautions			
Environmental precautions	Do not allow into any sewer, on the ground or into any body of water. See section 12 for additional ecological information.		
Methods and material for containm	ent and cleaning up		
Methods for containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.		
Methods for cleaning up	Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. Immediately contact emergency personnel. Keep unnecessary personnel away. Avoid contact with material.		
7. HANDI ING AND STORAGE			

# Precautions for safe handling<br/>Advice on safe handlingAvoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wash thoroughly<br/>after handling. Ensure adequate ventilation, especially in confined areas. Keep away from<br/>heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static<br/>electricity).Conditions for safe storage, including any incompatibilities<br/>Storage ConditionsKeep at temperatures between 46°F and 82°F (8°C and 28°C).Incompatible materialsOxidizing agents. Strong alkalis. Strong acids. Strong bases. Amines.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
METHYL METHACRYLATE	STEL: 100 ppm	TWA: 100 ppm	IDLH: 1000 ppm
80-62-6	TWA: 50 ppm	TWA: 410 mg/m <sup>3</sup>	TWA: 100 ppm
		(vacated) TWA: 100 ppm	TWA: 410 mg/m <sup>3</sup>
		(vacated) TWA: 410 mg/m <sup>3</sup>	
CARBON BLACK	TWA: 3 mg/m <sup>3</sup> inhalable particulate	TWA: 3.5 mg/m <sup>3</sup>	IDLH: 1750 mg/m <sup>3</sup>
1333-86-4	matter	(vacated) TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>
			TWA: 0.1 mg/m <sup>3</sup> Carbon black in
			presence of Polycyclic aromatic
			hydrocarbons PAH

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection	Wear protective gloves and protective clothing. Use rubber or plastic 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.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	No information available	Odor	Pungent
Color	Blue	Odor threshold	No information available
Property	<u>Values</u>	Remarks • Method	
рН	Does not apply		
Melting point / freezing point	No information available		
Boiling point / boiling range	101 °C / 214 °F		
Flash point	10 °C / 50 °F		
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	12.5% Methyl Methacrylate		
Lower flammability limit:	2.1% Methyl Methacrylate		
Vapor pressure	29.25 mmHg @20ºC		
Vapor density	3.5		
Relative density	0.97		
Water solubility	Slightly soluble		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition temperature	No information available		
Decomposition temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		
Other Information			
Softening point	No information available		
Molecular weight	No information available		
VOC Content (%)	1.82%		
Density	No information available		
Bulk density	No information available		

## **10. STABILITY AND REACTIVITY**

Reactivity No data available

**Chemical stability** 

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

Excessive heat.

#### Hazardous polymerization Hazardous polymerization may occur.

#### **Conditions to avoid**

Keep away from heat, sparks and open flame.

#### Incompatible materials

Oxidizing agents. Strong alkalis. Strong acids. Strong bases. Amines.

#### Hazardous Decomposition Products

None known based on information supplied.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

#### **Product Information**

Inhalation	No data available.
Eye contact	No data available.
Skin contact	No data available.
Ingestion	No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
METHYL METHACRYLATE 80-62-6	8420 - 10000 mg/kg (Rat)	5000 - 7500 mg/kg (Rabbit)	= 7093 ppm (Rat)4 h
CARBON BLACK 1333-86-4	> 15400 mg/kg (Rat)	-	> 4.6 mg/m³(Rat)4 h

#### Information on toxicological effects

Symptoms

No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No informati	ion available.		
Germ cell mutagenicity	No informati	ion available.		
Carcinogenicity	No informati	ion available.		
Chemical Name	ACGIH	IARC	NTP	OSHA
METHYL METHACRYLATE 80-62-6	-	Group 3	-	-
CARBON BLACK 1333-86-4	A3	Group 2B	-	Х
Reproductive toxicity	No informati	ion available.		
STOT - single exposure	No informati	ion available.		
STOT - repeated exposure	No informati	ion available.		
Aspiration hazard	No informati	ion available.		

#### Numerical measures of toxicity - Product Information

#### The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	
ATEmix (dermal)	
ATEmix (inhalation-vapor)	

4,470.30 mg/kg 4,194.90 mg/kg 31.0197 mg/l

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic life

Chemical Name	Algae/aquatic plants	Fish	Crustacea
METHYL METHACRYLATE	170: 96 h Pseudokirchneriella	125.5 - 190.7: 96 h Pimephales	69: 48 h Daphnia magna mg/L EC50
80-62-6	subcapitata mg/L EC50	promelas mg/L LC50 static	
		153.9 - 341.8: 96 h Lepomis	
		macrochirus mg/L LC50 static	
		170 - 206: 96 h Lepomis	
		macrochirus mg/L LC50 flow-	
		through	
		243 - 275: 96 h Pimephales	
		promelas mg/L LC50 flow-through	
		326.4 - 426.9: 96 h Poecilia	
		reticulata mg/L LC50 static	
		79: 96 h Oncorhynchus mykiss	
		mg/L LC50 flow-through	
		79: 96 h Oncorhynchus mykiss	
		mg/L LC50 static	

#### Persistence and degradability

No information available.

## **Bioaccumulation**

Chemical Name	Partition coefficient
METHYL METHACRYLATE	0.7
80-62-6	

Other adverse effects

No information available

## **13. DISPOSAL CONSIDERATIONS**

#### Waste treatment methods Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** 

Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
METHYL METHACRYLATE	U162	Included in waste stream:	-	U162
80-62-6		F039		

Chemical Name	California Hazardous Waste Status
METHYL METHACRYLATE	Toxic
80-62-6	Ignitable

DOT

## **14. TRANSPORT INFORMATION**

DOT	
UN/ID no.	UN1133
Proper shipping name	Adhesives
Hazard Class	3
Packing Group	II
Special Provisions	(Not more than 5L) Consumer Commodity ORM-D
Marine pollutant	None known.
IATA	
UN/ID no.	UN1133
Proper shipping name	Adhesives
Hazard Class	3
Packing Group	II
IMDG	
UN/ID no.	UN1133
Proper shipping name	Adhesives
Hazard Class	3
Packing Group	II
Marine pollutant	None

## **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

All ingredients are on the inventory or are exempt from listing.

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical

or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %		
METHYL METHACRYLATE - 80-62-6		1.0	
SARA 311/312 Hazard Categories			
Acute health hazard	-		
Chronic Health Hazard	-		
Fire hazard	-		
Sudden release of pressure hazard	-		
Reactive Hazard	-		

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
METHYL METHACRYLATE 80-62-6	1000 lb	-	-	Х

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
METHYL METHACRYLATE	1000 lb	-	RQ 1000 lb final RQ
80-62-6			RQ 454 kg final RQ
LIS State Regulations			

#### US State Regulations

## California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical Name		California Proposition 65		
CARBON BLACK - 1333-86-4		Carcinogen		
S. State Right-to-Know Regulat	ions			
Chemical Name	New Jersey	Massachusetts	Pennsylvania	
METHYL METHACRYLATE 80-62-6	X	X	X	
CARBON BLACK 1333-86-4	Х	X	Х	

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards -	Flammability -	Instability -	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards -	Flammability -	Physical hazards -	Personal protection -
Prepared By Issue Date Revision Date Revision Note <u>Disclaimer</u>	SDS coord 04-Apr-202 04-Apr-202 No informa	22		

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet