# SAFETY DATA SHEET

1. Identification
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1. Identification				
Product identifier	PLEXUS® MA2245 Adhe	esive		
Other means of identification				
SKU#	0747			
Recommended use	Not available.			
Recommended restrictions	None known.			
Manufacturer/Importer/Supplie	er/Distributor information			
Manufacturer				
Company name	ITW Performance Polyme	ITW Performance Polymers		
Address	30 Endicott Street			
	Danvers, MA 01923			
	United States			
Telephone	Customer Service	978-777-1100		
Website	www.itwperformancepolyr	www.itwperformancepolymers.com		
E-mail	Not available.			
Contact person	EHS Department			
Emergency phone number	Chemtrec	800-424-9300		
	International	703-527-3887		
2. Hazard(s) identification	on			
Physical hazards	Flammable liquids		Category 2	
Health hazards	Skin corrosion/irritation		Category 2	
	Serious eye damage/eye	irritation	Category 1	
	Sensitization, skin		Category 1A	

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards OSHA defined hazards

Label elements



Not classified. Not classified.

Signal word	Danger
Hazard statement	Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.
Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion. None.

Supplemental information

#### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methyl Methacrylate		80-62-6	30 - 60
Polyvinyl acetate		N/A	20 - 40
Benzyl 3-isobutyryloxy-1-isopropyl-2,2-dim ethylpropyl Phthalate		16883-83-3	2.5 - 10
METHACRYLIC ACID		79-41-4	1 - 5
STYRENE, ISOPRENE COPOLYMER		25038-32-8	1 - 2.5
Other components below reportable	levels		20 - 40

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

#### 5. Fire-fighting measures

<b>U U</b>	
Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.

#### 6. Accidental release measures

6. Accidental release mea	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanica means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
7. Handling and storage	
Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaus ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get this materia in contact with eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
	For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value	
Methyl Methacrylate (CAS 80-62-6)	PEL	410 mg/m3	
		100 ppm	

US. ACGIH Threshold Lim	lit Values	
Components	Туре	Value
METHACRYLIC ACID (CAS 79-41-4)	6 TWA	20 ppm
Methyl Methacrylate (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm
US. NIOSH: Pocket Guide	to Chemical Hazards	
Components	Туре	Value
METHACRYLIC ACID (CAS 79-41-4)	S TWA	70 mg/m3
		20 ppm
Methyl Methacrylate (CAS 80-62-6)	TWA	410 mg/m3
		100 ppm
Biological limit values	No biological exposure lir	mits noted for the ingredient(s).
Exposure guidelines	Occupational Exposure L	imits are not relevant to the current physical form of the product.
US - California OELs: Skir	n designation	
METHACRYLIC ACID US - Tennessee OELs: Sk	, ,	Can be absorbed through the skin.
METHACRYLIC ACID US NIOSH Pocket Guide t	(CAS 79-41-4) <mark>o Chemical Hazards: Skin d</mark>	Can be absorbed through the skin. Iesignation
METHACRYLIC ACID	(CAS 79-41-4)	Can be absorbed through the skin.
Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.	
Individual protection measure		
Eye/face protection		side shields (or goggles) and a face shield.
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves.	
Other	Wear appropriate chemical resistant clothing.	
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should no be allowed out of the workplace.	
9. Physical and chemica	I properties	
Appearance	Paste.	
Physical state	Not available.	

Physical state	Not available.
Form	Paste.
Color	Tan.
Odor	No data reported
Odor threshold	Not available.
рН	5 - 6
Melting point/freezing point	-54.4 °F (-48 °C) estimated
Initial boiling point and boiling range	212.9 °F (100.5 °C) estimated
Flash point	50.0 °F (10.0 °C) estimated

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e limits % estimated 5 % estimated available.
% estimated 5 % estimated available.
5% estimated available.
available.
available.
25 hPa estimated
available.
available.
available.
7 g/cm3
explosive.
nmable IB estimated
oxidizing.
7

#### 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Nitrates. Peroxides.
Hazardous decomposition products	No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Information on toxical arisal off	insta

#### Information on toxicological effects

#### Acute toxicity

Not known.

Components	Species	Test Results
Methyl Methacrylate (CAS 80-62-6	6)	
<u>Acute</u>		
Inhalation		
LC50	Mouse	18.5 mg/l, 2 Hours
Oral		7000 //
LD50	Rat	7800 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye rritation	Causes serious eye damage.	
Respiratory or skin sensitization	n	
ACGIH sensitization		
METHYL METHACRYLA	· · · ·	Dermal sensitization
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin re	
Germ cell mutagenicity	mutagenic or genotoxic.	product or any components present at greater than 0.1% are
Carcinogenicity	Not classifiable as to carcino	genicity to humans.
	Evaluation of Carcinogenicity	
	S 80-62-6) ed Substances (29 CFR 1910.1	3 Not classifiable as to carcinogenicity to humans. <b>001-1052)</b>
Not regulated.	arom (NTD) Bonort on Caroli	00000
Not listed.	ogram (NTP) Report on Carcir	
Reproductive toxicity		to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
12. Ecological informatio	n	
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment	
Persistence and degradability	No data is available on the de	gradability of any ingredients in the mixture.
Bioaccumulative potential		
Partition coefficient n-octar	nol / water (log Kow)	0.00
METHACRYLIC ACID Methyl Methacrylate		0.93 1.38
Mobility in soil	No data available.	
Other adverse effects		organic compounds which have a photochemical ozone creation
13. Disposal consideratio	ns	
Disposal instructions		e in sealed containers at licensed waste disposal site. Incinerate the
	containers. If discarded, this	ditions in an approved incinerator. Do not incinerate sealed product is considered a RCRA ignitable waste, D001. Dispose of ince with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with a	
Hazardous waste code	D001: Waste Flammable mat	erial with a flash point <140 F signed in discussion between the user, the producer and the waste
Waste from residues / unused products		n local regulations. Empty containers or liners may retain some al and its container must be disposed of in a safe manner (see:

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### 14. Transport information

-		
DOT		
UN number	UN1133	
UN proper shipping name	Adhesives, containing a flammable liquid, Limited Quantity	
Transport hazard class(es)		
Class	3	
Subsidiary risk	-	
Label(s)	3	
Packing group	111	
	Read safety instructions, SDS and emergency procedures before handling.	
Special provisions	B1, B52, IB3, T2, TP1	
Packaging exceptions	150	
Packaging non bulk	173	
Packaging bulk	242	
ΙΑΤΑ		
UN number	UN1133	
UN proper shipping name	Adhesives containing flammable liquid, Limited Quantity	
Transport hazard class(es)		
Class	3	
Subsidiary risk	-	
Packing group		
Environmental hazards	No.	
ERG Code	3L	
Special precautions for user Other information	Read safety instructions, SDS and emergency procedures before handling.	
Passenger and cargo aircraft	Allowed with restrictions.	
Cargo aircraft only	Allowed with restrictions.	
IMDG		
UN number	UN1133	
UN proper shipping name	ADHESIVES containing flammable liquid, Limited Quantity	
Transport hazard class(es)		
Class	3	
Subsidiary risk	-	
Packing group	111	
Environmental hazards		
Marine pollutant	No.	
EmS	F-E, S-D	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.	
Transport in bulk according to	Not established. Not applicable.	
Annex II of MARPOL 73/78 and		
the IBC Code		
DOT; IMDG		



# 15. Regulatory information US federal regulations This production Standard, 2

 

 ral regulations
 This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

 US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

 Methyl Methacrylate (CAS 80-62-6)

Listed.

Methyl Methacrylate (CAS 80-62-6)	% 1.0
US EPCRA (SARA Title III) Section 313 -	Toxic Chemical: Listed substance
Methyl Methacrylate (CAS 80-62-6)	Listed.

#### **Toxic Substances Control Act (TSCA)**

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Methyl Methacrylate (CAS 80-62-6)

SARA 304 Emergency release notification

#### Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous Yes chemical Classified hazard Flam categories Skin o

# hazardFlammable (gases, aerosols, liquids, or solids)Skin corrosion or irritationSerious eye damage or eye irritationRespiratory or skin sensitizationSpecific target organ toxicity (single or repeated exposure)Hazard not otherwise classified (HNOC)

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Methyl Methacrylate	80-62-6	30 - 60	_

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Methyl Methacrylate (CAS 80-62-6)

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

#### Safe Drinking Water Act Contains component(s) regulated under the Safe Drinking Water Act.

#### (SDWA)

#### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Methyl Methacrylate (CAS 80-62-6)

#### US state regulations

#### California Proposition 65



**WARNING:** This product can expose you to Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Low priority

#### California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene Glycol (CAS 107-21-1)

#### Listed: June 19, 2015

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Methyl Methacrylate (CAS 80-62-6)

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date	04-26-2019
Revision date	04-26-2019
Version #	02
HMIS® ratings	Health: 2 Flammability: 3 Physical hazard: 1
NFPA ratings	Health: 2 Flammability: 3 Instability: 1
Disclaimer	ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
Revision information	Composition / Information on Ingredients: Undisclosed Ingredient Statement Physical & Chemical Properties: Multiple Properties

# SAFETY DATA SHEET

## 1. Identification

1. Identification			
Product identifier	PLEXUS® MA2045/2145/2090 Black Activator		
Other means of identification			
SKU#	0735		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	/Distributor information		
Manufacturer			
Company name Address	ITW Performance Polymers 30 Endicott Street Danvers, MA 01923		
Telephone	United States Customer Service 978-777-1100		
Website	www.itwperformancepolymers.com		
E-mail	Not available.		
Contact person	EHS Department		
Emergency phone number	Chemtrec 800-424-9300		
	International 703-527-3887		
2. Hazard(s) identification	n		
Physical hazards	Not classified.		
Health hazards	Skin corrosion/irritation Category 2		
	Serious eye damage/eye irritation Category 2A		
	Sensitization, skin Category 1		
	Specific target organ toxicity, single exposure Category 3 respiratory tract irritation		
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements	$\wedge$		
Signal word	Warning		
Hazard statement	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.		
Precautionary statement			
Prevention	Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves.		
Response	If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.		
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Cumula mental information	Nama		

Supplemental information

None.

#### 3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Benzyl 3-isobutyryloxy-1-isopropyl-2,2-dim ethylpropyl Phthalate		16883-83-3	20 - 40
DIBUTYL MALEATE		105-76-0	20 - 40
ACRYLONITRILE STYRENE ACRYLATE COPOLYMER		26299-47-8	10 - 20
Dibenzoyl Peroxide		94-36-0	2.5 - 10
ISODECYL BENZOATE		131298-44-7	2.5 - 10
Oxirane, Methyl-, Polymer With Oxirane, Monobutyl Ether		9038-95-3	1 - 2.5
Other components below reportable	elevels		2.5 - 10

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures		
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poisc center or doctor/physician if you feel unwell.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.	
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from	During fire, gases hazardous to health may be formed.	

the chemical	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value	
Dibenzoyl Peroxide (CAS 94-36-0)	PEL	5 mg/m3	
US. ACGIH Threshold Limi	t Values		
Components	Туре	Value	
Dibenzoyl Peroxide (CAS 94-36-0)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide t	o Chemical Hazards		
Components	Туре	Value	
Dibenzoyl Peroxide (CAS 94-36-0)	TWA	5 mg/m3	
ological limit values	No biological exposure limits noted for the ingredient(s).		
propriate engineering ntrols	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.		
•	s, such as personal protective equip		
Eye/face protection	Chemical respirator with organic va	apor cartridge and full facepiece.	
Skin protection Hand protection	Wear appropriate chemical resistant gloves.		
Other	Wear appropriate chemical resistant clothing.		
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
neral hygiene nsiderations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.		

- ,		
Appearance	Liquid.	
Physical state	Liquid.	
Form	Liquid.	
Color	Black.	
Odor	Mild. Ester-like.	

Odor threshold	Not available.	
рН	6 - 8	
Melting point/freezing point	217.4 °F (103 °C) estimated	
Initial boiling point and boiling range	Not available.	
Flash point	285.8 °F (141.0 °C) estimated	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or exp	losive limits	
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	< 0.5 mm Hg @ 68 F	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	176 °F (80 °C) estimated	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Density	1.16 g/cm3 estimated	
Explosive properties	Not explosive.	
Flammability class	Combustible IIIB estimated	
Oxidizing properties	Not oxidizing.	
Specific gravity	1.16 estimated	
10. Stability and reactivity		
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.	
Chemical stability	Material is stable under normal conditions.	
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.	
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.	

Hazardous decomposition No hazardous decomposition products are known.

Incompatible materials

#### 11. Toxicological information

#### Information on likely routes of exposure

Alcohols. Amines.

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.	
Skin contact	Causes skin irritation. May cause an allergic skin reaction.	
Eye contact	Causes serious eye irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.	

Information on toxicological effects

Acute toxicity	Not known.	
Components	Species	Test Results
Dibenzoyl Peroxide (CAS 94-36-0	)	
<u>Acute</u>		
Oral	_	
LD50	Rat	7710 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritatio	n.
Respiratory or skin sensitization	ı	
Respiratory sensitization	Not a respiratory sensitizer	
Skin sensitization	May cause an allergic skin	reaction.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overall	Evaluation of Carcinogenic	ty
Dibenzoyl Peroxide (CAS OSHA Specifically Regulate		3 Not classifiable as to carcinogenicity to humans. .1001-1052)
Not regulated. US. National Toxicology Pro Not listed.	ogram (NTP) Report on Card	inogens
Reproductive toxicity	This product is not expecte	d to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	
12. Ecological information		
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment	
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.	
Bioaccumulative potential		
Partition coefficient n-octan Dibenzoyl Peroxide	ol / water (log Kow)	3.46
Mobility in soil	No data available.	
Other adverse effects		ental effects (e.g. ozone depletion, photochemical ozone creation ion, global warming potential) are expected from this component.
13. Disposal consideratio	ns	
Disposal instructions		ose in sealed containers at licensed waste disposal site. Dispose of dance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Since emptied containers n	nay retain product residue, follow label warnings even after container is should be taken to an approved waste handling site for recycling or
14. Transport information		

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

## Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

#### 15. Regulatory information

US federal regulations	This product is a "Haz Standard, 29 CFR 19		defined by the OSHA Hazard Communication
US EPCRA (SARA Tit	le III) Section 313 - Toxic	Chemical: De minim	is concentration
Dibenzoyl Peroxid US EPCRA (SARA Tit	e (CAS 94-36-0) <b>le III) Section 313 - Toxic</b>	% 1.0 Chemical: Listed su	bstance
Dibenzoyl Peroxid	e (CAS 94-36-0)	Listed.	
Toxic Substances Contro	I Act (TSCA)		
TSCA Section 12(b) E	Export Notification (40 CF	R 707, Subpt. D)	
Not regulated.			
CERCLA Hazardous Subs	stance List (40 CFR 302.4	ł)	
Not listed.	·		
SARA 304 Emergency rele	ease notification		
Not regulated. OSHA Specifically Regula	ited Substances (29 CFR	1910.1001-1052)	
Not regulated.			
Superfund Amendments and SARA 302 Extremely haza		986 (SARA)	
Not listed.			
SARA 311/312 Hazardous chemical	Yes		
Classified hazard categories	Skin corrosion or irrita Serious eye damage Respiratory or skin se Specific target organ	or eye irritation	ated exposure)
SARA 313 (TRI reporting)			
Chemical name		CAS number	% by wt.
Dibenzoyl Peroxide		94-36-0	2.5 - 10
Other federal regulations			
Clean Air Act (CAA) Secti	on 112 Hazardous Air Po	ollutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Secti	on 112(r) Accidental Rele	ease Prevention (40 C	CFR 68.130)
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations			
California Proposition 65			
	which is known to the Stat	e of California to cause e of California to cause	ling 2-Propenenitrile; Acrylonitrile, Cyanoethylene, e cancer, and DIISODECYL PHTHALATE (DIDP), e birth defects or other reproductive harm. For v.
California Proposition	n 65 - CRT: Listed date/C	arcinogenic substan	ce
	Acrylonitrile, Cyanoethylen		
STYRENE (CAS 1	00-42-5)	Listed: April	22, 2016

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date	04-25-2019
Version #	01
HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
Disclaimer	ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.