

SAFETY DATA SHEET

Issue Date 09-Jul-2015

Revision Date 13-Oct-2015

Version 1

1. IDENTIFICATION					
Product identifier					
Product Name	HASA 66071				
Other means of identification					
Product Code	MS-66071				
UN/ID no.	None				
Synonyms	None				
Recommended use of the chemica	al and restrictions on use				
Recommended Use	Structural Adhesive.				
Uses advised against	None known				
Details of the supplier of the safet	y data sheet				
Manufacturer Address					
Hernon Manufacturing Inc.					
121 Tech Drive					
Sanford, FL 32771					
800-527-0004					
Emergency telephone number					
Company Phone Number	407-322-4000				
Emergency Telephone	Chemtel 800-255-3924				

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

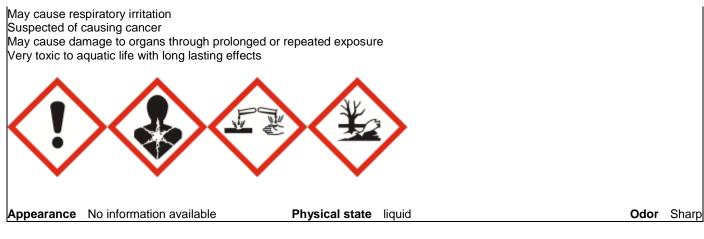
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Category 4	

Label elements

Emergency Overview

Warning

Hazard statements Harmful if swallowed Causes skin irritation Causes eye irritation May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled



Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Wash face, hands and any exposed skin thoroughly after handling In case of inadequate ventilation wear respiratory protection Contaminated work clothing must not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray Keep away from flames and hot surfaces. - No smoking Keep cool

Precautionary Statements - Response

Call a POISON CENTER or doctor/physician if you feel unwell IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing IF ON SKIN (or hair): 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 person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Rinse mouth. DO NOT induce vomiting In case of fire: Use CO2, dry chemical, or foam to extinguish

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

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
Polyurethane Methacrylate Resin	Proprietary	40-50	*

MS-66071 - HASA 66071

868-77-9	20-30	*
7534-94-3	10-20	*
79-10-7	1 - 5	*
67762-90-7	1 - 5	*
80-15-9	1 - 5	*
110-16-7	1 - 5	*
114-83-0	0.1 - 1	*
	7534-94-3 79-10-7 67762-90-7 80-15-9 110-16-7	7534-94-3 10-20 79-10-7 1 - 5 67762-90-7 1 - 5 80-15-9 1 - 5 110-16-7 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	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 effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use CO2, dry chemical, or foam.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx). Irritating organic vapors.

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	Avoid contact with eyes and skin. Use personal protective equipment as required.	
For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	See Section 12 for additional ecological information.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Soak up with inert absorbent material. Store in a closed container until ready for disposal.	
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.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep at temperatures between 7 and 29 °C. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).	
Incompatible materials	Reducing agents. Strong oxidizers.	
0 EV		

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
Polyurethane Methacrylate Resin	TWA: 0.005 ppm	(vacated) Ceiling: 0.02 ppm	IDLH: 75 mg/m ³
		regulated under Methylene	Ceiling: 0.020 ppm 10 min
		bisphenyl isocyanate	Ceiling: 0.2 mg/m ³ 10 min
		(vacated) Ceiling: 0.2 mg/m ³	TWA: 0.005 ppm
		regulated under Methylene	TWA: 0.05 mg/m ³
		bisphenyl isocyanate	_
		Ceiling: 0.02 ppm	
		Ceiling: 0.2 mg/m ³	
Acrylic acid	TWA: 2 ppm	(vacated) TWA: 10 ppm	TWA: 2 ppm
79-10-7	S*	(vacated) TWA: 30 mg/m ³	TWA: 6 mg/m ³
		(vacated) S*	-

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eyewash stations. Minimize exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.

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

Physical state

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

Appearance Color Property Hα Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Relative density** Water solubility Solubility in other solvents Partition coefficient Autoignition temperature **Decomposition temperature Kinematic viscosity** Dynamic viscosity **Explosive properties Oxidizing properties**

Other Information

Softening point Molecular weight VOC Content (%) Density **Bulk density**

liquid No information available amber

Values

Does not apply No information available > 149 °C / 300 °F > 85 °C / 185 °F No information available No information available 8% Acrylic Acid 2% Acrylic Acid >10 mm at 80 °F No information available 1.09 slightly soluble No information available No information available

No information available No information available No information available No information available No information available

10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability Stable under recommended storage conditions. Possibility of Hazardous Reactions None under normal processing. Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Incompatible materials. Incompatible materials Reducing agents. Strong oxidizers. Hazardous Decomposition Products None known.

Odor **Odor threshold** Sharp No information available

Remarks • Method

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Harmful if swallowed Harmful by skin contact Harmful by inhalation
Inhalation	Harmful by inhalation.
Eye contact	Avoid contact with eyes.
Skin contact	Harmful in contact with skin.
Ingestion	May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Polyurethane Methacrylate Resin	= 31600 mg/kg (Rat)= 9200 mg/kg (Rat)	-	= 369 mg/m³ (Rat)4 h
2-Hydroxyethyl methacrylate 868-77-9	= 5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Acrylic acid 79-10-7	= 33500 µg/kg (Rat)= 193 mg/kg (Rat)	= 295 mg/kg (Rabbit)= 280 μL/kg (Rabbit)	= 11.1 mg/L (Rat)1 h = 3.6 mg/L (Rat)4 h
Cumene Hydroperoxide 80-15-9	= 382 mg/kg (Rat)	= 0.126 mL/kg (Rabbit)	= 220 ppm (Rat)4 h
Maleic acid 110-16-7	= 708 mg/kg (Rat)	= 1560 mg/kg (Rabbit)	> 720 mg/m³ (Rat)1 h

Information on toxicological effects

Symptoms

No information available.

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

Skin corrosion/irritation Sensitization Germ cell mutagenicity Carcinogenicity	Irritating to sl No informatic No informatic This product IARC or NTP	on available. on available. does not contain any carci	nogens or potential carcin	ogens as listed by OSHA,
Chemical Name	ACGIH	IARC	NTP	OSHA
Polyurethane Methacrylate Resin	-	Group 3	-	-
Acrylic acid 79-10-7	-	Group 3	-	-
Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard	No information No inf	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)	4,645.00 mg/kg
ATEmix (dermal)	6,147.00 mg/kg
ATEmix (inhalation-dust/mist)	2.30 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Hydroxyethyl methacrylate	-	213 - 242: 96 h Pimephales	-
868-77-9		promelas mg/L LC50 flow-through	
		227: 96 h Pimephales promelas	
		mg/L LC50	
Acrylic acid	0.17: 96 h Pseudokirchneriella	222: 96 h Brachydanio rerio mg/L	270: 24 h Daphnia magna mg/L
79-10-7	subcapitata mg/L EC50 0.04: 72 h	LC50 semi-static	LC50 Static 95: 48 h Daphnia
	Desmodesmus subspicatus mg/L		magna mg/L EC50
	EC50		
Cumene Hydroperoxide	-	3.9: 96 h Oncorhynchus mykiss	7: 24 h Daphnia magna mg/L EC50
80-15-9		mg/L LC50 static	
Maleic acid	-	5: 96 h Pimephales promelas mg/L	250 - 400: 48 h Daphnia magna
110-16-7		LC50 static	mg/L EC50

Persistence and degradability No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
2-Hydroxyethyl methacrylate	0.47
868-77-9	
Acrylic acid	0.38 - 0.46
79-10-7	
Maleic acid	-0.79 - 0.32
110-16-7	

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.

US EPA Waste Number Not applicable

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Acrylic acid 79-10-7	-	-	-	U008
Cumene Hydroperoxide 80-15-9	-	-	-	U096

Chemical Name	California Hazardous Waste Status
Cumene Hydroperoxide	Toxic
80-15-9	Ignitable

14. TRANSPORT INFORMATION

DOT	Not regulated
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None

Special Provisions	None
	Not regulated
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None
IMDG_	Not regulated
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None
<u>RID</u>	Not regulated
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None
ADR_	Not regulated
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None

15. REGULATORY INFORMATION

Complies
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 %	
Polyurethane Methacrylate Resin -	1.0	
Acrylic acid - 79-10-7	1.0	
Cumene Hydroperoxide - 80-15-9	1.0	
SARA 311/312 Hazard Categories		
Acute health hazard	No	
Chronic Health Hazard	No	
Fire hazard	No	
Sudden release of pressure hazard	No	
Reactive Hazard	No	

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
Maleic acid 110-16-7	5000 lb	-	-	Х

<u>CERCLA</u>

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)
Polyurethane Methacrylate Resin	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Acrylic acid 79-10-7	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Cumene Hydroperoxide 80-15-9	10 lb	-	RQ 10 lb final RQ RQ 4.54 kg final RQ
Maleic acid 110-16-7	5000 lb	-	RQ 5000 lb final RQ RQ 2270 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
Polyurethane Methacrylate Resin	Х	X	Х
Acrylic acid 79-10-7	Х	X	Х
Cumene Hydroperoxide 80-15-9	Х	X	Х
Maleic acid 110-16-7	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> HMIS	Health hazards 0 Health hazards 0	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Physical and Chemical Properties - Personal protection X
Prepared By Issue Date Revision Date	SDS coord 09-Jul-201 13-Oct-20	5		

Revision Note

No information 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