

Safety Data Sheet according to HazCom 2012

SDS #: GA-112

GA-112

Issue Date 2020-12-01		Revision Date 2020-12-01			
1. IDENTIFICATION	OF THE SUBSTAN	CE/PREPARATION AND OF T	HE COMPANY/UNDERTAK	ING	
Product identifier Product Name	GA-112	2			
<u>Other means of identin</u> Product Code Synonyms	f <mark>ication</mark> GA-112 Not app	licable			
<u>Recommended use of</u> Identified uses Uses advised against	<u>the chemical and rest</u> Adhesiv No infor				
Details of the supplier Manufacturer Address Dymax Corporation 318 Industrial Lane Torrington, CT 06790 Tel: 860-482-1010 Fax: 860-496-0608 Information department		<u>et</u> merican Safety Department @ 1-86	0-482-1010		
Emergency Telephone		nerica: Chemtrec @ 1-800-424-93			
2. HAZARDS IDENT	IFICATION				
	d (gel) racteristic	Color Appearance	black translucent		
Classification					
Acute toxicity - Inhalation	on (Dusts/Mists)		Category 4 Category 2		

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

Target Organ Effects Respiratory system, EYES, Skin.

GHS Label elements, including precautionary statements



Issue Date 2020-12-01

Revision Date 2020-12-01

Version 3.01

Signal word

Danger

Hazard statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H332 - Harmful if inhaled
H335 - May cause respiratory irritation

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse If skin irritation or rash occurs: 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

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Other Information

Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity.

Environmental product testing for acute and chronic aquatic effects determined classification to be Category 3

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret	Classification (Reg. 1272/2008)
Aliph. Urethane Acrylate Monomer	Proprietary	10-24	*	Acute Tox. 4 (H332) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)
Aliph. Acrylate Monomer	Proprietary	10-24	*	Skin Sens. 1(H317)
N,N-Dimethylacrylamide	2680-03-7	5-9	*	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Eye Dam. 1 (H318) Flam. Liq. 4 (H227)
Acrylate Monomer	Proprietary	5-9	*	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Chronic 2 (H411)
Acrylic acid	79-10-7	3-<5	*	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1 (H314)

Issue Date 2020-12-01

Revision Date 2020-12-01

Version 3.01

				Aquatic Acute 1 (H400)
Photoinitator	Proprietary	1-<3	*	Skin Irrit. 2 (H315)
				Eye Irrit. 2A (H319)
				STOT SE 3 (H335)
Visible photoinitiator	Proprietary	<1	*	Skin Sens. 1A (H317)
				Aquatic Chronic 4
				(H413)

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

1	. FIRST AID MEASURES		
14			

First aid measures

General advice

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Eye contact

Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists.

Skin Contact

Wash off immediately with plenty of water, Get medical attention if irritation develops and persists.

Inhalation

Remove to fresh air, If symptoms persist, call a physician.

Ingestion

If swallowed, Rinse mouth, Get medical attention.

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Main 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

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

Hazardous combustion products

Hazardous decomposition products due to incomplete combustion.

Explosion data

Issue Date 2020-12-01

Revision Date 2020-12-01

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

Ensure adequate ventilation, Wear protective gloves/clothing and eye/face protection.

Environmental precautions

Environmental precautions

Do not allow material to contaminate ground water system, Try to prevent the material from entering drains or water courses, See Section 12 for additional Ecological Information, Local authorities should be advised if significant spillages cannot be contained.

Other Information

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 (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice Ensure adequate ventilation Protect from light

Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed in a dry and well-ventilated place Protect from light

Incompatible products

Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers, Thiosulfates.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acrylic acid	TWA: 2 ppm S*	(vacated) TWA: 10 ppm	TWA: 2 ppm
79-10-7(3-<5%)		(vacated) TWA: 30 mg/m ³ S*	TWA: 6 mg/m ³

ACGIH (American Conference of Governmental Industrial Hygienists)

Issue Date 2020-12-01

Revision Date 2020-12-01

TLV - Threshold Limit Value **OSHA (Occupational Safety and Health Administration of the US Department of Labor)** PEL - Permissible Exposure Limits **NIOSH IDLH** Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with side-shields If splashes are likely to occur, wear: Goggles

Hand Protection

Nitrile rubber, (NBR: 6mm), Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Respiratory protection

Ensure adequate ventilation, A NIOSH-approved respirator with a minimum APF of 50, or 1000 if spray applied, in accordance with 29 CFR 1910.134, Do not breathe vapors, mist or gas.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice, When using do not eat, drink or smoke, Wear suitable gloves and eye/face protection, Wash hands before breaks and at the end of workday, Contaminated work clothing should not be allowed out of the workplace, Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	liquid (gel) translucent black	Odor Odor threshold	Characteristic No information available
<u>Property</u> pH Melting point / freezing point Boiling point / boiling range	<u>Values</u>	Remarks / • Method No information available No information available No information available	
Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air	101 °C / 213 °F	No information available No information available	
Upper flammability limit Lower flammability limit Vapor pressure	-	No information available	
Vapor density Specific Gravity		No information available No information available	
Water Solubility Solubility in other solvents Partition coefficient: n-octanol/wate Autoignition temperature Decomposition temperature	Practically insoluble er	No information available No information available No information available No information available	
Dynamic viscosity Kinematic viscosity Explosive properties Oxidizing properties	40,000 cP No information available No information available	No information available	

Issue Date 2020-12-01

Revision Date 2020-12-01

Version 3.01

Other Information

Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information availableDensityNo information availableBulk densityNo information available

10. STABILITY AND REACTIVITY

Reactivity

No information available.

<u>Chemical stability</u> Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Protect from light. Heat, flames and sparks.

Incompatible materials

Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers.

Hazardous Decomposition Products

No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Information on likely routes of exposure

Inhalation	There is no data for this product
Eye contact	There is no data for this product
Skin Contact	There is no data for this product
Ingestion	There is no data for this product
Symptoms	No information available.

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

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Risk of serious damage to eyes.
Sensitization	May cause sensitization of susceptible persons.
Mutagenic effects	No information available.
Reproductive toxicity	No information available.
Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen

Issue Date 2020-12-01

Revision Date 2020-12-01

Version 3.01

Chemical Name	ACGIH	IARC	NTP	OSHA	
Carbon Black	A3	Group 2B	-	Х	
Other Information					
Developmental Toxicity	No information available.				
STOT - single exposure Target Organ Effects	Respiratory system, EYES, Skin.				
Aspiration hazard	No information available.				
Other adverse effects	No information available.				
Chronic toxicity	Avoid repeated exposure				
Numerical measures of toxicity - Product Information					

0 % of the mixture consists of ingredient(s) of unknown toxicity

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

ATEmix (oral)	2482 mg/kg
ATEmix (dermal)	6468 mg/kg
ATEmix (inhalation-gas)	8778 mg/l
ATEmix (inhalation-dust/mist)	2.1 mg/l
ATEmix (inhalation-vapor)	221.2 mg/l

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aliph. Urethane Acrylate Monomer	>5000 mg/kg (Rat)	-	-
Aliph. Acrylate Monomer	LD50 > 1,000 mg/kg	LD50 > 1,000 mg/kg	-
N,N-Dimethylacrylamide	252 mg/kg (Rat)	907mg/kg (Rabbit)	776 ppm (Rat) 1 h
Acrylate Monomer	= 4890 mg/kg (Rat)	-	-
Acrylic acid	= 193 mg/kg (Rat)	= 280 µL/kg (Rabbit)	= 5300 mg/m ³ (Rat) 2 h
-	= 33500 µg/kg(Rat)	= 295 mg/kg (Rabbit)	
Photoinitator	5000 mg/kg (Rat)	> 1160 mg/kg (Rat)	10.6 mg/L (Rat) 4 h
Visible photoinitiator	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Acute aquatic toxicity

Product Information

Environmental product testing for acute and chronic aquatic effects determined classification to be Category 3

Component Information

Chemical Name	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to algae
Aliph. Acrylate Monomer	EC50 > 4.3 mg/l 96 hr	-	-
	(Pimephales promelas)		
N,N-Dimethylacrylamide	LC50 > 120 mg/L 96 h	EC50 > 120 mg/l 48 h	-
	(Oncorhynchus mykiss)	(Daphnia magna)	
Acrylate Monomer	LC50 = 1.8 mg/L 96 h	EC 50 = 1.1 mg/L 48 h	ErC 50 = 2.7 mg/L 96 h

Issue Date 2020-12-01

Revision Date 2020-12-01

Version 3.01

	(Danio rerio)	(Daphnia magna)	(Pseudokirchneriella subcapitata)
Acrylic acid	LC50 = 222 mg/L 96 h	EC50 = 95 mg/L 48 h	EC50 0.04 mg/L 72 h
	(Brachydanio rerio)	(Daphnia magna)	(Desmodesmus subspicatus)
Visible photoinitiator	LC50: semi-static 90µg/L 96h	-	-
	(Danio rerio)		

Persistence and degradability

No information available.

Bioaccumulation

Chemical Name	log Pow
Aliph. Acrylate Monomer	4.1
Acrylate Monomer	4.52
Acrylic acid	0.46
Photoinitator	2.5

Mobility in soil

No product level data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods

Dispose of waste in compliance with local and national regulations.

Contaminated packaging

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION		
DOT	Not regulated	
ICAO/IATA	Not regulated	
IMDG/IMO	Not regulated	

15. REGULATORY INFORMATION

International Inventories

Complies
Complies
Not listed
Not listed
Complies

Legend:

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

AICS - Australian Inventory of Chemical Substances

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

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

Issue Date 2020-12-01

Revision Date 2020-12-01

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations

OSHA Regulatory Status

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

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 %
Acrylic acid	1.0

SARA 311/312 Hazard Categories

Acute health hazard Chronic Health Hazard	Yes No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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):. This material, as supplied, contains one or more substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or as extremely hazardous substances under the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acrylic acid	5000 lb	-	RQ 5000 lb final RQ
-			RQ 2270 kg final RQ

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Acrylic acid 3-<5	Х	Х	Х
Carbon Black <0.1	Х	Х	Х

California Proposition 65

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



WARNING

Chemical Name	California Proposition 65
Carbon Black	Carcinogen
0.0101643	_

Additional information

None

Issue Date 2020-12-01

Revision Date 2020-12-01

Version 3.01

16. OTHER INFORMATION

Prepared By Revision Date EHS Department 2020-12-01

No information available

Revision Note <u>Disclaimer</u>

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Dymax Corporation and its subsidiaries and affiliates (DYMAX). The information in this SDS relates only to the specific material designated herein. DYMAX assumes no legal responsibility for use of or reliance upon the information in this SDS.

end