



Safety Data Sheet

No. 343H1

SDS Version: 1.0

Revision Date: 2020-01-17

Print Date: 2024-04-11

1. CHEMICALS AND COMPANY IDENTIFICATION

Chemical Name : Grafted polychloroprene adhesive

Other Names : -

Product Code : 343H1

Use recommendations and limitations : See Technical Data Sheet.

Name, addresses, and phone numbers of the manufacturer, importer or supplier :

KRÖNYO United Co., Ltd.

1F, No. 429, Sec. 6, Yen Ping N. Rd., Shih-Lin Taipei, 111070 Taiwan

Tel: +886-2-2813-7108 Fax: +886-2-2813-7110

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+886-2-2813-7108 / +886-2-2813-7110

E-mail address of person responsible for Safety Data Sheet :

service@kronyo.com

2. HAZARDS IDENTIFICATION

Chemicals hazard classification :

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2;H225

Highly flammable liquid and vapor.

Acute Tox. 4;H302

Harmful if swallowed.

Acute Tox. 4;H332

Harmful if inhaled.

Skin Irrit. 2;H315

Causes skin irritation.

Eye Irrit. 2;H319

Causes serious eye irritation.

Skin Sens. 1;H317

May cause an allergic skin reaction.

Repr. 2;H361

Suspected of damaging fertility or the unborn child.

STOT RE 2;H373

May cause damage to organs through prolonged or repeated exposure. Specific Target Organs: (Not Available)

Aquatic Chronic 3;H412

Harmful to aquatic life with long lasting effects.

Label contents:

According to Regulation (EC) No 1272/2008

Pictograms:

Flame



Exclamation Mark



Health Hazards

Signal Word: Danger**Hazard Statements :**

H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements :**[Prevention]:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P233 Keep container tightly closed.

P235 Keep cool.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P301+312 IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P308+313 IF exposed or concerned: Get medical advice / attention.

P314 Get Medical advice / attention if you feel unwell.

P321 Specific treatment (see information on this label).

P330 IF SWALLOWED: Rinse mouth.

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:

P403+235 Store in a well ventilated place. Keep cool.

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

See Technical Data Sheet.

Other hazards : This product contains no PBT/vPvB chemicals.

3. INGREDIENTS IDENTIFICATION INFORMATION

If the product contains substances that present a hazard according to Regulation (EC) No. 1272/2008 [CLP/GHS] (as amended by (EU) 2015/830), they are listed below.

MIXTURE :**Chemical Property :**

Chemical Name	CAS No.	Concentration or concentration ranges	Classification according to regulation EC No. 1272/2008*	Notes
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		(% of contents)		
Toluene	CAS No.: 108-88-3 EC No. Index No.:	54 - 59	STOT RE 2;H373 Asp. Tox. 1;H304 Aquatic Chronic 3;H412 Flam. Liq. 2;H225 Acute Tox. 4;H302 Eye Dam. 2A;H319 Skin Irrit. 2;H315 Repr. 2;H361	[1][2]
Chloroprene rubber	CAS No.: 9010-98-4 EC No. Index No.:	14 - 18	Not Classified	[1]
Hexane	CAS No.: 110-54-3 EC No. Index No.:	9 - 12	Flam. Liq. 2;H225 Skin Irrit. 2;H315 Eye Dam. 2A;H319 Repr. 2;H361 STOT RE 2;H373 Asp. Tox. 1;H304 Aquatic Chronic 2;H411	[1][2]
Methyl ethyl ketone	CAS No.: 78-93-3 EC No. Index No.:	6 - 9	Flam. Liq. 2;H225 Eye Dam. 2A;H319 STOT RE 2;H373	[1][2]
Synthetic resin	CAS No.: 9003-35-4 EC No. Index No.:	6 - 10	Not Classified	[1]
Methyl Methacrylate	CAS No.: 80-62-6 EC No. Index No.:	0 - 4	Flam. Liq. 2;H225 Eye Dam. 2A;H319 Skin Sens. 1;H317	[1][2]

^{CLP 31} Reference EC No. 1272/2008 1.1.3.1. Notes relating to the identification, classification and labelling of substances (Table 3.1).

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. FIRST-AID MEASURES

The first-aid measures for different exposure routes :**General :**

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation :

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Skin contact :

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Eye contact :

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Ingestion :

If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and hazardous effects :**General :**

No available information Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

Inhalation :

Harmful if inhaled.

Eye contact :

Causes serious eye irritation.

Skin contact :

May cause an allergic skin reaction. Causes skin irritation.

Ingestion :

Harmful if swallowed.

The protection of first-aiders :

No available information

Notes to physicians :

Treat symptomatically

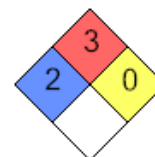
5. FIRE-FIGHTING MEASURES**Suitable fire extinguishing media :**Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.**NFPA Ranking**

Health (blue) :2

Fire (red) :3

Reactivity (yellow) :0

Special (white) :--

**Special hazards may be encountered during fire-fighting :**

Hazardous decomposition: High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Keep container tightly closed.

Keep cool.

Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / light / equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust / fume / gas / mist / vapors / spray.

Special fire-fighting methods :

No available information

Special equipment and protections for fire-fighters :

Put on appropriate personal protective equipment (see section 8).

6. ACCIDENTAL RELEASE MEASURES**Personal precautions :**

Put on appropriate personal protective equipment (see section 8).

Environmental precautions :

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Methods for cleaning up :

Small Spill: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Large Spill: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for late disposal.

7. SAFE HANDLING AND STORAGE MEASURES**Handling :**

Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment.

Observe good industrial hygiene practices.

See section 2 for further details. - [Prevention]:

Storage :

Store in cool, dry ventilated area. Avoid excessive heat. Always keep containers tightly closed when not in use.

Incompatible materials: Strong oxidizing agents and acids.

See section 2 for further details. - [Storage]:

8. EXPOSURE CONTROLS MEASURES**Engineering Controls :**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Control parameters

Ingredient	8 hours time weighted average exposure limits	Short-term exposure limits	Maximum exposure limits	Other Regulations	
108-88-3 / Toluene	100 ppm TWA; 376 mg/m3 TWA	125 ppm 470 mg/m3	No available information	ACGIH	TWA: 20 ppm
				NIOSH	TWA 100 ppm (375 mg/m3) ST 150 ppm (560 mg/m3)
110-54-3 / Hexane	50 ppm TWA; 176 mg/m3 TWA	75 ppm 220 mg/m3	No available information	ACGIH	TWA: 20 ppm
				NIOSH	TWA 50 ppm (180 mg/m3)
78-93-3 / Methyl ethyl ketone	200 ppm TWA; 590 mg/m3 TWA	250 ppm 737.5 mg/m3	No available information	ACGIH	TWA: 50 ppm STEL: 100 ppm
				NIOSH	TWA 200 ppm (590 mg/m3) ST 300 ppm (885 mg/m3)
80-62-6 / Methyl Methacrylate	100 ppm TWA; 410 mg/m3 TWA	125 ppm 512.5 mg/m3	No available information	ACGIH	TWA: 50 ppm STEL: 100 ppm
				NIOSH	TWA 100 ppm (410 mg/m3)
9003-35-4 / Synthetic resin	No available information	No available information	No available information	ACGIH	No available information
				NIOSH	No available information
9010-98-4 / Chloroprene rubber	No available information	No available information	No available information	ACGIH	No available information
				NIOSH	No available information

Ingredient	BEI
108-88-3 / Toluene	Toluene 0.02mg/L in the blood after continuous work every week - 0.03mg/L of urinary toluene after work - 0.3mg of o-cresol per gram of creatin in the urine after work
110-54-3 / Hexane	Urine contains 2,5-hexanedione 0.4mg/L after one week of work
78-93-3 / Methyl ethyl ketone	The MEK in urine after work is 2mg/L (Ns)
80-62-6 / Methyl Methacrylate	No available information
9003-35-4 / Synthetic resin	No available information
9010-98-4 / Chloroprene rubber	No available information

Personal protective equipment :**Respiratory protection :**

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Hand protection :

Wear PVC or rubber gloves to keep skin contact to a minimum.

Refer to the manufacturer's recommendations regarding the suitability of any gloves used.

Eye protection :

Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

Skin and body protection :

Avoid skin contact.

Hygiene measures :

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (state, color, etc.) : Light yellow gonorrhea liquid	Odor : Solvent Odor
Odor threshold : No available information	Melting point : No available information
pH value : No available information	Boiling point / Boiling range : 68 °C
Flammability (solid, liquid) : No available information	Flashpoint : <23 °C Test method(Open cup or Close cup) : Close cup
Decomposition temperature : about 300 °C	Explosion limits : 1.0% - 12.5%
Auto-ignition temperature : 480°C - 516°C	Vapor Density : Heavier than air
Vapor pressure : 22 - 78 mmHg @20 °C	Solubility : Slightly soluble in water
Density : < 1	Evaporation rate : No available information
Octanol/Water partition coefficient : No available information	Explosive properties : No available information
Viscosity : 7500 - 8500 cP	Oxidizing properties : No available information

10. STABILITY AND REACTIVITY

Reactivity :

Hazardous Polymerization will not occur.

Chemical stability :

Stable under normal circumstances.

Possible hazardous reactions occurring under specific conditions :

No available information

Conditions to avoid :

Excessive heat and open flame.

Materials to avoid :

Strong oxidizing agents and acids.

Hazardous decomposition products :

High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION**Exposure routes/symptom :**

Exposure routes	Category	Symptom
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (inhalation)	4	Harmful if inhaled.
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2	Causes serious eye irritation.
Skin sensitization	1	May cause an allergic skin reaction.
Reproductive toxicity	2	Suspected of damaging fertility or the unborn child.
STOT-repeated exposure	2	May cause damage to organs through prolonged or repeated exposure. Specific Target Organs: (Not Available)

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapour LC50,	Inhalation Dust/Mist LC50,	Inhalation Gas LC50,
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			mg/L/4hr	mg/L/4hr	ppm
Toluene - (108-88-3)	No available information	No available information	No available information	No available information	6,000.00, Rat - Category: 4
Hexane - (110-54-3)	9,100.00, Rat - Category: NA	No available information	No available information	0.12, Mouse - Category: 2	No available information
Methyl ethyl ketone - (78-93-3)	2,740.00, Rat - Category: 5	No available information	No available information	No available information	No available information
Methyl Methacrylate - (80-62-6)	7,872.00, Rat - Category: NA	No available information	7.80, Rat - Category: 3	No available information	No available information
Synthetic resin - (9003-35-4)	No available information	No available information	No available information	No available information	No available information
Chloroprene rubber - (9010-98-4)	No available information	No available information	No available information	No available information	No available information

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Carcinogen Data

CAS No.	Ingredient	Source	Value
108-88-3	Toluene	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
110-54-3	Hexane	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
78-93-3	Methyl ethyl ketone	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
80-62-6	Methyl Methacrylate	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
9003-35-4	Synthetic resin	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
9010-98-4	Chloroprene rubber	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

Chronic toxicity or long term toxicity :

No available information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l	Biodegradability %
Toluene - (108-88-3)	No available information	No available information	No available information	No available information
Hexane - (110-54-3)	No available information	No available information	No available information	No available information
Methyl ethyl ketone - (78-93-3)	1,690.00,	No available information	No available information	No available information
Methyl Methacrylate - (80-62-6)	0.089,	No available information	No available information	No available information
Synthetic resin - (9003-35-4)	No available information	No available information	No available information	No available information
Chloroprene rubber - (9010-98-4)	No available information	No available information	No available information	No available information

Persistence and degradation :

There is no data available on the preparation itself.

Organism accumulation :

No available information

Movement through soil, Koc :

No available information

Other negative effects :

No available information

13. WASTE DISPOSAL MEASURES

Methods of waste disposal :

Observe all federal, state and local regulations when disposing of this substance.

14. TRANSPORT INFORMATION

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
United Nation number (UN No)	UN1133	UN1133	UN1133

UN proper shipping name	UN1133, Adhesives, containing a flammable liquid, 3, II	Adhesives, containing a flammable liquid	Adhesives, containing a flammable liquid
Transport hazard classification	DOT Hazard Class: 3	IMDG: 3 Sub Class: Not Applicable	Air class: 3
Packing group	II	II	II
Ocean contaminants (Yes/No)	No		
Specific transport measures and precautionary conditions :	No available information		

15. REGULATORY INFORMATION

Applicable regulations :

EU Legislation :

REGULATION (EU) 2015/830 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Taiwan Legislation :

Occupational Safety and Health Act, Regulation of Labelling and Hazard Communication of Dangerous and Harmful Materials, Road Traffic and Safety Regulation, Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste, Public Hazardous Substances & Flammable Pressurized Gases Establishment Standards & Safety Control Regulations, Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace.

16. OTHER INFORMATION

Reference	1. Department of Occupational Safety and Health, GHS Chemical Global Harmonization System website (http://ghs.osha.gov.tw/CHT/masterpage/index_CHT.aspx) 2. Environmental Protection Department of the Executive Yuan Department of Toxic Chemical Substances (http://www.epa.gov.tw/np.asp?ctNode=31422&mp=epa) 3. The website of the European Chemical Agency. (http://echa.europa.eu/)
Company	Name : KRÖNYO United Co., Ltd. Address / Telephone : 1F, No. 429, Sec. 6, Yen Ping N. Rd., Shih-Lin Taipei, 111070 Taiwan / +886-2-2813-7108
Prepared by	Title : Researcher Name (Signature) : Tin Chien
Issue Date	2020-01-17
Remarks	The information and recommendations contained herein are based upon what is believed to be correct, reliable, and for information purposes only. Greco does not assume responsibility for any results obtained by persons over whose methods Greco has no

	control. The full text of the phrases appearing in section 3 is: H225 Highly flammable liquid and vapor. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
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