Beacon Adhesives Co. Inc.
www.beaconadhesives.com
125 South Macquesten Parkway
Mount Vernon, NY 10550
Phone 914-699-3400 | Fax 914-699-2783

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : **Magna-Tac M773 Part A**

Product Code(s) : None assigned.

1.2 Relevant identified uses of the substance or mixture and uses advised against

: Resin component
Use pattern: Professional use only
Restriction on use: None known

1.3 Details of the supplier of the safety data sheet:

Beacon Adhesives
125 Macquesten Parkway South
Mount Vernon, NY, USA
10550

Telephone : (914) 699 3400

1.4 Emergency Telephone Number

: Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

1.5 National Contact

: 011 (914) 699 3400
info@beaconadhesives.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Liquid. Slight ethereal odour

Most important hazards :Flammable liquid Causes skin and eye irritation. May damage fertility or the unborn child. May cause an allergic skin reaction.

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.

Hazard classification :

Flammable liquids - Category 2; H225
Skin Irritation - Category 2 ; H315
Serious eye damage/eye irritation - Category 2A; H319
Skin sensitization - Category 1A; H317

2.2 Label elements

Hazard pictogram(s)

Hazardous components which must be listed on the label Polyamide resin;Isopropanol;2-butoxyethanol

DANGER!
H225 - Highly flammable liquid and vapour.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H317 - May cause an allergic skin reaction.

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P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves and eye/face protection.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P370 + P378 - In case of fire, use dry chemical, CO2 or 'alcohol foam' to extinguish.
P501 - Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

Other hazards which do not result in classification: :
Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

PBT assessment This preparation contains no substances, at reportable levels, considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Mixture

Substance name	CAS No	EC No.	Reach Registration No.	% Weight	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
Polyamide resin	63428-84-2	N/Av	Not applicable.	**85.0 - 95.0**	Skin Irrit. 2; H315 Eye Irrit. 2 ;H319 Skin Sens. 1 ;H317 (self classified)	Not applicable.
2-butoxyethanol	111-76-2	203-905-0	Not applicable.	**5.0 - 10.0**	**Acute Tox. 3; H311 **Acute Tox. 3; H331 *Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	ATE oral = 12048.19 mg/kg ATE dermal = 9090.90 mg/kg ATE inhalation (vapours) = 49.43 mg/l
Isopropanol	67-63-0	200-661-7	Not applicable.	**1.0 - 5.0**	Flam. Liq. 2; H225, Eye Irrit. 2; H319, STOT SE 3; H336	Not applicable.

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Ingestion : Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

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Inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTER or doctor/physician.

Skin contact : Immediately flush with plenty of water, while removing contaminated clothing.Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

Eye contact : For eye contact, flush with running water for at least 15 minutes.If eye irritation persists: get medical advice/attention.

4.1.2 Self-protection for the first aider

: None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

: Causes skin irritation. May cause an allergic skin reaction (e.g. swelling, rash and eczema). Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. .

4.3 Indication of any immediate medical attention and special treatment needed

: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

: Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog

Unsuitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

: Flammable liquid and vapour. Vapours may ignite explosively. Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.
Empty containers may contain hazardous residues.

5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

Special fire-fighting procedures

: Do not breathe fumes or vapours.Move containers from fire area if safe to do so.Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

: Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

6.3 Methods and material for containment and cleaning up

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: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Avoid breathing mist or vapours. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

6.4 Reference to other sections

: Refer to Section 5 for firefighting instructions. Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

: Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Contaminated work clothing must not be allowed out of the workplace. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharges. Ground all equipment during handling.
Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.

7.2 Conditions for safe storage, including any incompatibilities

: Keep container tightly closed. Store in cool/well-ventilated place. Store locked up. Keep cool. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Empty containers may contain hazardous residues.

7.3 Specific end use(s) : Resin

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:

Chemical Name	Exposure Limits	Type	Notes
2-butoxyethanol	20 ppm (98 mg/m³) (TWA) 50 ppm (246 mg/m³) (STEL)	European Union (OEL)	Possibility of significant uptake through the skin
	20 ppm (98 mg/m³) (TWA) 50 ppm (250 mg/m³) (STEL)	Finland (OEL)	Potential for cutaneous absorption
	10 ppm (49 mg/m³) (indicative limit) (TWA) 50 ppm (246 mg/m³) (indicative limit) (STEL)	France (OEL)	Risk of cutaneous absorption
	10 ppm (49 mg/m³) (exposure factor 4) (TWA)	Germany (OEL)	Skin notation
	98 mg/m³ (TWA) 246 mg/m³ (STEL)	Hungary (OEL)	Potential for cutaneous absorption
	20 ppm (98 mg/m³) (TWA) 50 ppm (246 mg/m³) (STEL)	Italy (OEL)	Skin - Potential for cutaneous absorption

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	98 mg/m³ (TWA) 200 mg/m³ (STEL)	Poland (OEL)	Skin notation
	20 ppm (98 mg/m³) (TWA) 50 ppm (245 mg/m³) (STEL)	Spain (OEL)	Skin - Potential for cutaneous absorption
	25 ppm (123 mg/m³) (TWA) 50 ppm (246 mg/m³) (STEL)	The United Kingdom (WELs)	Potential for cutaneous absorption
Isopropanol	None.	European Union (OEL)	None.
	200 ppm (500 mg/m³) (TWA) 250 ppm (620 mg/m³) (STEL)	Finland (OEL)	None.
	400 ppm (980 mg/m³) (STEL)	France (OEL)	None.
	200 ppm (500 mg/m³) (TWA)	Germany (OEL)	(exposure factor 2)
	500 mg/m³ (TWA) 2000 mg/m³ (STEL)	Hungary (OEL)	Potential for cutaneous absorption
	900 mg/m³ (TWA) 1200 mg/m³ (STEL)	Poland (OEL)	Skin notation
	200 ppm (500 mg/m³) (TWA) 400 ppm (1000 mg/m³) (STEL)	Spain (OEL)	None.
	400 ppm (999 mg/m³) (TWA) 500 ppm (1250 mg/m³) (STEL)	The United Kingdom (WELs)	None.

Biological Exposure Indices:

Chemical Name	Biological Exposure Indices	Type
2-butoxyethanol	240 mmol/mol Creatinine, Determinant: Butoxyacetic acid, Specimen: Urine	UK. EH40 Biological Monitoring Guidance Values (BMGVs)
	100 mg/L, Determinant: Butoxyacetic acid (for long-term exposure), Specimen: Urine 150 mg/g Creatinine, Specimen: Butoxyacetic acid (for long-term exposure after hydrolysis), Specimen: Urine	Germany. TRGS 903, BAT List (Biological Limit Values)
	200 mg/g Creatinine, Determinant: Butoxyacetic acid with hydrolysis, Specimen: Urine	Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4
Isopropanol	40 mg/L, Determinant: Acetone, Specimen: Urine	Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4
	25 mg/L, Determinant: Acetone, Specimen: Blood / Urine	Germany. TRGS 903, BAT List (Biological Limit Values)

8.2 Exposure controls

Ventilation and engineering measures

: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.

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Respiratory protection : If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection : Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye / face protection : Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing fumes, mists or vapors. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

8.3 Environmental exposure controls

: Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Liquid
Colour : Not available.
Odour : Slight ethereal odour
Odour threshold : Not available.
pH : None.
Flash point : 12°C
Flashpoint (Method) Cleveland closed cup
Lower flammable limit (% by vol.)
: Not available.
Upper flammable limit (% by vol.)
: Not available.
Auto-ignition temperature
: >500°C
Decomposition temperature
: Decomposes.
Oxidizing properties : None.
Explosive properties : Not explosive
Initial boiling point and boiling range
: Decomposes.
Melting/Freezing point : Not available.
Relative density : 1.02 gm/cc
Solubility in water : Not available.
Other solubility(ies) : Not available.
Vapour pressure : 33 mmHg @ 20°C
Vapour density : Not available.
Partition coefficient: n-octanol/water
: Not available.
Viscosity : 1000-1500 cps

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Evaporation rate (BuAe = 1)
: Not available.

Particle characteristics : Not applicable.

9.2 Other Information

Volatiles (% by weight) : 2.53%

Volatile organic Compounds (VOC's)
: No information available.

Other physical/chemical comments
: None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive. May react with considerable heat release with some curing agents.

10.2 Chemical stability : Stable under normal conditions. .

10.3 Possibility of hazardous reactions
: Hazardous polymerization does not occur.

10.4 Conditions to avoid : Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible substances. Do not use in areas without adequate ventilation.

10.5 Incompatible materials
: Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

10.6 Hazardous decomposition products
: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.

Skin corrosion/Irritation : Causes skin irritation.

Serious eye damage/irritation
: Causes serious eye irritation.

Respiratory or skin sensitisation
: May cause an allergic skin reaction. Not expected to be a respiratory sensitizer.

Germ cell mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : According to the classification criteria of the European Union, the product is not considered as being a carcinogen.

Reproductive toxicity : According to the classification criteria of the European Union, this product is not considered as being toxic to reproduction.

STOT-single exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.

Aspiration hazard : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.

Routes of exposure : Skin contact ;Eye contact;Ingestion;Inhalation .

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Effects of acute exposure : Skin contact: Causes skin irritation. May cause an allergic skin reaction (e.g. swelling, rash and eczema). Symptoms may include redness, itching and swelling.

Eye contact: Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.

Inhalation :Mild respiratory irritant

Ingestion:Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential Chronic Health Effects
: Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

Information on other Hazards
: None reported by the manufacturer.

11.1.1 Acute Toxicity

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Chemical name	LC_{50}(4hr) inh, rat	LD_{50} (Oral, rat)	LD_{50} (Rabbit, dermal)
Polyamide resin	N/Av	N/Av	N/Av
2-butoxyethanol	450 ppm (2.175 mg/L) (vapour)	530 mg/kg	400 - 500 mg/kg
Isopropanol	17 000 ppm (41.8 mg/L) (vapour)	4720 mg/kg	12 890 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : Contains material that may be harmful in the environment. Do not allow material to contaminate ground water system.
See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Polyamide resin	63428-84-2	N/Av	N/Av	None.
2-butoxyethanol	111-76-2	1490 mg/L (Bluegill sunfish)	> 100 mg/L (Zebra fish)	None.
Isopropanol	67-63-0	9640 mg/L (Fathead minnow)	N/Av	None.

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Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Polyamide resin	63428-84-2	N/Av	N/Av	None.
2-butoxyethanol	111-76-2	835 mg/L (Daphnia magna)	100 mg/L	None.
Isopropanol	67-63-0	> 10 000 mg/L/24hr (Daphnia magna)	30 mg/L	None.

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Polyamide resin	63428-84-2	N/Av	N/Av	None.
2-butoxyethanol	111-76-2	911 mg/L/72hr (Green algae)	286 mg/L/72hr	None.
Isopropanol	67-63-0	N/Av	N/Av	None.

12.2 Persistence and degradability

: No data is available on the product itself.

12.3 Bioaccumulation potential

: No information available.

Polyamide resin (CAS 63428-84-2)	N/Av	N/Av

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
2-butoxyethanol (CAS 111-76-2)	0.8	0.97
Isopropanol (CAS 67-63-0)	0.05	1.0

12.4 Mobility in soil : The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects

: None known.

12.8 Additional information : None known or reported by the manufacturer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations.

SECTION 14. TRANSPORTATION INFORMATION

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Regulatory Information	**14.1 UN Number**	**14.2 UN proper shipping name**	**14.3 Transport hazard class(es)**	**14.4 Packing Group**	*Label*
ICAO/IATA	UN1866	Resin solution	3	II	
ICAO/IATA Additional information	Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material.				
IMDG	UN1866	RESIN SOLUTION flammable	3	II	
IMDG Additional information	Consult the IMDG regulations for exceptions.				
ADR/RID	UN1866	RESIN SOLUTION, flammable	3	II	
EU ADR/RID Classification Code	F1 - Flammable liquids having a flash-point of or below 61 °C				
EU ADR / RID Hazard Identification Number	33 - highly flammable liquid (flash-point below 23°C)				
ADR/RID Additional information	May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass.				

14.5 Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

14.6 Special precautions for user

: Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame - No smoking.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures. Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: None.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended None.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: None of the components are specifically listed.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: 2-butoxyethanol (CAS#111-76-2)

Directive 94/33/EC on the protection of young people at work:
Polyamide resin (CAS# 63428-84-2)
2-butoxyethanol (CAS#111-76-2)
Isopropanol (CAS#67-63-0)
German legislation on water endangering substances VwVwS Water hazard class (Germany) 1 self classified

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.

SECTION 16. OTHER INFORMATION

Legend :

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstract Services
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EC: European Community
EC50: Effective Concentration 50%
ECHA: European Chemicals Agency
EN: European Standard
EU: European Union
HSDB: Hazardous Substances Data Bank
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Dangerous Goods
Inh: Inhalation
LC: Lethal Concentration
LD: Lethal Dose
NOEC: No observable effect concentration
OECD: Organisation for Economic Co-operation and Development
OEL: National occupational exposure limits
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
RTECS: Registry of Toxic Effects of Chemical Substances
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
WEL: Workplace Exposure Limit

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Information Source : 1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2019 (Chempendium, RTECs, HSDB, INCHEM).
3. European Chemicals Agency, Classification Legislation, 2019.
4. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

Preparation Date (dd/mm/yyyy) : 01/06/2021

Regulation and Procedure :

Flammable; Flash point
Skin irritation; Expert judgement
Eye irritation; Expert judgement
Skin sensitization; Expert judgement

H-phrases (full-text)
H225 - Highly flammable liquid and vapour. H302 - Harmful if swallowed.
H311 - Toxic in contact with skin.
H331 - Toxic if inhaled.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

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