



# SAFETY DATA SHEET

## 1. Identification

1.1 **Material Name:** HULK SYSTEMS MBS®

1.2 **Material:** Acrylic Resin Solution

1.3 **Recommended use and restrictions on use**

**Recommended Use:** Industrial use

**Non - recommended use(s):** None known

1.4 **Manufacturer/Importer/Supplier/Distributor Information**

Weatherskin Corporation

4209 Brandon Street SE

Calgary, AB T2G 4A7

CA

**Contact person**

EH&S Department

**Telephone:**

403 287 2751

**Emergency telephone number:**

In case of emergency call CANUTEC: 613-996-6666

## 2. Hazard(s) Identification

### 2.1 Hazard Classification

#### Health Hazards

Acute Toxicity Inhalation	Category 4
Eye Damage / Eye Irritation	Category 2A
Flammable Liquids	Category 2
Specific Target Organ Toxicity (Single exposure)	Category 3

#### 2.1.2 Environmental Hazards

Harmful to aquatic life.

### 2.1.3 Other Hazards

Caution- Spillages may be slippery.

### 2.1.4 Hazards Summary

Irritating to eyes and skin.

May cause irritation to the respiratory system.

Harmful to aquatic life.

## 2.2 Label Elements



Symbol:

Signal Word:

Hazard Statement:

Danger.

H226: Highly flammable liquid and vapor.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H310: Causes serious eye irritation.

Precautionary Statements:

P262: Do not get in eyes, on skin, or on clothing.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P210: Keep away from heat, sparks, open flames and hot surfaces, no smoking.

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

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

P261: Avoid breathing fume / vapors / spray.

P233: Keep container tightly closed

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical, lighting, ventilating equipment

P264: Wash clothing, hands, forearms, and face thoroughly after handling.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P403+P235: Store in a well-ventilated place. Keep cool.

### 3. Composition / Information on Ingredients

#### 3.1 Substances

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#### 3.2 Mixtures

#### Hulk Systems MBS®

#### HARDENER

#### HAZARDOUS INGREDIENTS

	C.A.S.#	WEIGHT %
Acetone	67-64-1	30 - 50
Tert-butyl Acetate	540-88-5	30 - 50

### 4. First-Aid Measures

#### 4.1 Description of first aid measures

#### EYE CONTACT:

Rinse cautiously with eyewash solution or clean water, holding the eyelids apart for several minutes. Remove contact lenses if present and easy to do. If eye irritation persists: Get medical attention. Continue rinsing eyes during transport to hospital.

#### SKIN CONTACT:

If on skin or hair, immediately take off all contaminated clothing and shoes. Rinse skin, washing thoroughly with water. Get medical attention if irritation persists.

**INHALATION:** Remove patient from exposure, keep warm and at rest. Get medical attention.

**INGESTION:** Clean mouth with water and follow by drinking a glass of water. Keep respiratory tract clear. Do not induce vomiting. Immediately call a POISON CENTER / Doctor.

#### 4.2 Indication of any immediate medical attention or special treatment needed

Note to Physicians                      Treat Symptomatically.

### 5. Fire Fighting Measures

#### 5.1 Extinguishing Media

**Suitable extinguishing media:** Quick-acting ABC powder extinguisher, quick-acting BC powder extinguisher, quick-acting class B foam extinguisher, alcohol resistant foam, carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** Full water jet - may spread fire.

#### 5.2 Hazards:

**Flammable properties and hazards** Direct fire hazard. Highly flammable liquid and vapor. Gas / vapor flammable within explosion limits. Indirect fire hazard. May be ignited by sparks.

**Hazardous combustion products** Hazardous decomposition products formed under fire conditions are carbon dioxide, carbon monoxide, and nitrogen oxides. No hazardous combustion products are known.

**Specific hazards during fire fighting** Do not allow run-off from fire fighting to enter drains or water courses.

**5.3 Fire-fighting procedures:** Cool tanks/drums with water. Remove them. Physical explosion risk.

**5.4 Special protective equipment:** Self contained breathing apparatus and protective clothing should be worn in the case of fire.

## 6. Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Use personal protective equipment. Wear chemical safety glasses, rubber boots and

heavy rubber gloves. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Beware of vapors accumulating in low areas.

### 6.2 Accidental Release Measures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### 6.3 Methods and Materials for Containment and Cleaning Up

Provide adequate ventilation. Caution: Spillages may be slippery. Ventilate the area. Soak up with inert absorbent material (e.g., sand, silica gel, universal binder, sawdust) Keep in suitable, closed containers for disposal.

### 6.4 Environmental Precautions

Do not allow to enter drains, waterways, sewers, basements, or confined areas. Do not discharge into the subsoil / soil. Absorb spills with inert material and place in a chemical waste container. If the product contaminates rivers and lakes or drains inform the respective authorities.

## 7. Handling and Storage

### 7.1 Handling

#### Technical measures:

Use only in well ventilated area or wear an appropriate respirator. Avoid breathing vapor or mist. Avoid all personal contact.

#### Safe handling advice:

Use personal protective equipment. Avoid generation of mist. Emergency shower and eye wash facilities should be readily available. Keep away from ignition sources, open flames, and hot surfaces. No smoking. Use spark proof appliances and lighting system. Open containers carefully as contents may be under pressure.

#### Contact avoidance measures:

Use personal protective equipment.

## 7.2 Hygiene Measures

Wash hands before breaks and after work. Remove soiled or soaked clothing immediately. Wash contaminated clothes before reuse. Do not eat, drink, or smoke when handling this product. Remove contaminated clothing and protective equipment before entering eating areas.

## 7.3 Storage

**Safe storage conditions:** Keep at a temperature not exceeding 50 °C. Do not allow material to freeze. Keep container tightly closed. Store in cool/well ventilated place. Keep away from heat. No smoking.

**Safe packaging materials:** No data available.

# 8. Exposure Controls / Personal Protection

## 8.1 EXPOSURE LIMITS

Hazardous Components (Chemical Name)	C.A.S.#	OSHA	ACGIH	NIOSH
Acetone	67-64-1	No data	250 ppm TWA	590 mg/m <sup>3</sup> TWA
Tert-butyl Acetate			500 ppm STEL 200 ppm TWA	250 ppm TWA 200 ppm TWA

## 8.2 EXPOSURE CONTROLS

### APPROPRIATE ENGINEERING CONTROLS

Use local exhaust ventilation to maintain airborne concentrations at safe levels. Ensure adequate ventilation, especially in confined areas. Suitable respiratory equipment should be used in cases of insufficient ventilation or where demand it.

## GENERAL INFORMATION

Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems is necessary when applying indoors. Respiratory and eye protection is required in all applications. Ensure the product is never exposed to open flame, spark, ignition source, or high heat surfaces during application, as the product could ignite.

Good general ventilation (minimum 20 air changes per hour) should be used.

## PERSONAL PROTECTIVE

### EQUIPMENT

#### Respiratory Equipment:

Wear a NIOSH-approved (or equivalent) respirator such as an air purifying respirator with organic vapor cartridge and dust /mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow the manufacturer's instructions.

#### Eye Protection:

Use tightly fitting chemical splash goggles. Wear face shield if splashing hazard exists. Contact lenses should not be worn when working with chemicals. They contribute to the severity of an eye injury upon exposure.

#### Hand Protection:

Use impermeable gloves. Tetrafluoroethylene or butyl-rubber gloves.

#### Body Protection:

Use impervious clothing and chemical resistant boots. Consider using resistant coveralls and aprons if extensive exposure is possible.

#### Other Protective Equipment:

Ensure that eyewash stations and safety showers are close to the workstation location.

#### General Hygiene Consideration:

Do not breathe mist or vapor. Avoid all contact. 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 clothes home.

#### Environmental Exposure Controls:

Ensure ambient air temperatures never exceed 30° C (86 °F) when using product. Avoid runoff into storm sewers and ditches which lead to waterways. Hazardous to the environment.

## 9. Physical and Chemical Properties

## APPEARANCE

Physical State:	Liquid.
Color:	Clear, colourless.
Odor:	Solvent, aromatic, sweet, fruity, odor.

## PROPERTIES

Boiling Point:	Not available.
Melting Point:	Not available.
Freezing Point:	Not available.
Flash Point:	Not available.
PH:	Not available
Specific Gravity:	0.85 - 0.95 g/cm <sup>3</sup> .
Viscosity:	150 cP
VOC content:	250 mg/L.
Evaporation rate:	Not applicable.
Solubility in water:	Negligible.
Vapour pressure:	Not applicable.
Vapour density:	No data.
Auto ignition Point:	465 °C (869 °F).
Decomposition Temperature:	No data.
Explosive properties:	Combustible Limits - Vol% in air: 2.2-13
Oxidising Properties:	No data.

## 10. Stability and Reactivity

Chemical Stability:	Stable under normal conditions.
Incompatibility with Various Substances:	Strong oxidizing agents, acids, halogenated compounds, ammonia, carbon monoxide, carbon dioxide, Aldehydes, ketones. Reacts also with copper, aluminum, zinc and their alloys.
Hazardous Polymerization:	Will not occur under normal conditions.
Conditions to avoid:	High temperatures, direct sunlight.
Hazardous decomposition products:	Carbon dioxide, carbon monoxide, nitrogen oxides.

## 11. Toxicological Information

## 11.1 Information on likely routes of exposure

<b>Respiratory and Skin Sensitization:</b>	Acetone - On continuous exposure: dry skin, cracking of the skin. Tert-Butyl Acetate - Irritant to respiratory tract.
<b>Serious Eye Damage/Irritation:</b>	Acetone - Cause serious eye irritation. Tert-Butyl Acetate - Not available.
<b>Skin Corrosion/Irritation:</b>	Not Classified.
<b>Sensitization:</b>	Not sensitizing.
<b>Mutagenicity:</b>	Not classified.
<b>Carcinogenicity:</b>	No known significant effects.
<b>Reproductive Toxicity:</b>	No evidence of reproductive effects.
<b>Specific Target Organs Effect:</b>	Irritation to the respiratory tract. Narcotic effects. Causes dizziness, headache, tiredness, headache, tiredness, nausea, and vomiting.
<b>Aspiration Hazard:</b>	No aspiration hazard expected.

## 11.2 Acute Toxicity

Ingredient Name	Test	Species	Result	Exposure
Acetone	LD50 Dermal	Rabbit Male	20000 mg/Kg	
	LD50 Oral	Rat Female	5800 mg/Kg	
	LC50 Inhalation	Rat -Male, Female	76 mg/Kg	4 h
Tert-butyl Acetate	LD50 Dermal	Rabbit - Male, Female	2000 mg/Kg	
	LD50 Oral	Rat - Male, Female	4100 mg/Kg	
	LC50 Inhalation	Rat	9482 mg/m <sup>3</sup>	4 h
	LC50 Inhalation	Rat	>2230 mg/m <sup>3</sup>	4 h
	LC50 Dermal	Rabbit	200-1000 mg/Kg	

## 12. Ecological Information

### 12.1 Ecotoxicity:

#### Aquatic Ecotoxicity

Specified substance(s):

Acetone: 96 hr LC50 freshwater fish 5540 mg/L (EU method); *Salmo gairdneri*

Aquatic invertebrates

product:

No data available.

Toxicity to aquatic plants  
product:

No data available.

12.2 Persistence and degradability:

Acetone - Biodegradable in the soil, under anaerobic conditions. Readily biodegradable in water. BOD: 1.43g O<sub>2</sub>/g substance. COD: 1.92g O<sub>2</sub>/g substance. ThOD: 2.2g O<sub>2</sub>/g substance.

Tert-butyl Acetate - No data available. OECD 301B Ready. Biodegradability CO<sub>2</sub> evolution test.

12.3 Bio-accumulative potential:

Acetone - BCF fish<sub>1</sub>: 0.69 (Pisces)/BCF other aquatic organisms <sub>1</sub>: 3 - Not bio accumulative.

Tert-butyl Acetate - No Data available.

12.4 Mobility in soil:

Acetone - Surface tension: 0.237N/m. No test data on mobility of the substance available.

Tert-butyl Acetate - No data available.

12.5 Other adverse effects:

Acetone - Avoid release into the environment. Not classified as dangerous for the environment. Not included in list of substances which may contribute to the greenhouse effect. Not harmful to crustacea, fish, algae, and plankton.

Tert-butyl Acetate - An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose of this material and its container to hazardous or special waste collection point. Do not discharge substance/product into sewage system. Do not contaminate pond, waterways, or ditches with chemical or used

container. The product should not be allowed to enter drains, water courses or the soil.

**Contaminated Packaging:**

Do not reuse empty containers. Do not burn, or use cutting torch on the empty container.

## 14. TRANSPORTATION INFORMATION

14.1 Identification, UN number:	UN 1866
14.2 Shipping Name:	Flammable
14.3 Hazard Class:	3
14.4 Packing Group:	III

## 15. OTHER INFORMATION INCLUDING DATE OF PREPARATION OR LAST REVISION

Preparation Date:	May 15 <sup>th</sup> , 2022.
Version #:	1.0
SDS prepared by:	Weatherskin Corporation.
Further Information:	No data available.
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