IR-303 II Spot Remover

1. Identification

Product Name:	**IR-303 II Spot Remover**
Product Code:	**195-002**
SDS Date:	**10/15/2019**
Use:	**Industrial**

Lawson Screen Products
5110 Penrose St
St. Louis, MO 63115

General Information: 314-382-9300
CHEMTREC: 800-262-484-9300

2. Hazard(s) identification

GHSClassification

Flammable Liquids, (Category 2)
Acute Oral Toxicity (Category 4)
Acute Inhalation Toxicity (Category 4)
Skin irritation (Category 2)
Eye Irritation (Category 2B)
Carcinogen (Category 1B)
Reproductive Toxicity (Category 1B)
Specific target organ toxicity (single exposure), (Category 3)

Pictogram

Signalword Danger

HazardStatement

Highly flammable liquid and vapor.
Harmful if inhaled.
May be harmful if swallowed.
Causes skin irritation.
Causes eye irritation.
May cause cancer.
May damage fertility.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Precautionary

Do not handle until all safety precautions have been read and understood. Keep away from heat/ sparks/ open flames/ hot surfaces. - No smoking. Keep container tightly closed. Take precautionary measures against static discharge. Do not breathe vapors/ mist/ spray. Do not get in eyes, on skin or clothing. Do not eat, drink or smoke

when using this product. Use in a well-ventilated area. Wash face, hands and any exposed skin thoroughly after handling. Wear safety glasses or full face shield. Wear Viton gloves. DO NOT use natural rubber gloves when handling this product. Wear protective clothing. Wear respiratory protection. IF EXPOSED or concerned or if you feel unwell: 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. If eye irritation persists, get medical advice/attention. IF ON SKIN: remove immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. IF INHALED: Remove individual to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. IF ON CLOTHING: remove immediately all contaminated clothing. Wash contaminated clothing before reuse. In case of fire: Use dry sand, dry chemical or alcohol resistant foam to extinguish. Store in well ventilated area in tightly closed containers. Keep cool. Store locked up. Dispose of containers at an approved waste disposal plant.

Hazards not otherwise classified: Not available

3. Composition/information on ingredients

Name	CAS	Concentration
Tert-Butyl Acetate	540-88-5	20-50
1-Bromopropane	106-94-5	30-80
1,2 butylene oxide	106-88-7	<1
n-Propanol	71-23-8	<4
t-butyl alcohol	75-65-0	<1

4. First-aid measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If Inhaled	Remove person to fresh air. Give oxygen if breathing is difficult. Apply CPR respiration if individual is not breathing.
In Case of Skin Contact	Wash contaminated areas immediately with soap and water. Remove contaminated clothing and shoes. Seek medical advice.
In Case of Eye Contact	Flush eyes with water for at least 15 minutes. Seek emergency medical advice.
If Swallowed	Drink large amounts of water. DO NOT induce vomiting. Seek emergency medical advice. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

No information available.

Indications of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing Media	Extinguishing media should be chosen based on surrounding conditions. Water may be effective for cooling but not extinguishing. Carbon dioxide, dry chemical powder, alcohol foam or polymer foam.

Special Hazards	Do not weld or torch cut drums containing residual vapors, as vapors may be in the flammable range and an explosion could occur. Thermal decomposition may produce carbon monoxide, carbon dioxide, hydrogen halide and bromides.
Advice for firefighters	Use NIOSH approved self-contained breathing apparatus in positive pressure mode. Use water spray or fog to cool exposed equipment and containers.
Further Information	No data available.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Wear self-contained breathing apparatus and recommended personal protective equipment.

Environmental precautions	Contain spillage or leakage with dikes or absorbent material to prevent migration into sewer or waterway. For large spills, evacuate and ventilate the area.

Methods and materials for containment and cleaning up

Absorb with earth, sand, or other non-combustible absorbent material and place in closed container for disposal.

7. Handling and storage

Safe Handling	Wear safety glasses or full face mask. Use gloves when contact with product may occur. DO NOT use natural rubber gloves when handling this product. Vi ton or Silvershield gloves offer the best extended protection. Nitrile, neoprene or butyl gloves offer less protection and should be used for splash protection only.
Safe Storage	Store in well ventilated, cool, dry area away from incompatible materials (see materials to avoid). Keep container closed when not in use. Minimize introduction of water or moisture into the product. Keep away from beat, sparks, and open flame.

8. Exposure controls/personal protection

Name			CAS
Tert-Butyl Acetate			540-88-5
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
200 ppm	No data available	200 ppm	No data available
1-Bromopropane			106-94-5
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
No data available	No data available	0.1 ppm	No data available
1,2 butylene oxide			106-88-7
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
No data available	No data available	No data available	No data available

n-Propanol		71-23-8	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
200 ppm	No data available	100 ppm	No data available
t-butyl alcohol		75-65-0	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
100 ppm	Not Available	100 ppm	Not Available

Engineering Control	Showers, Eye wash stations, Ventilation systems
Eye/Face Protection	Always wear safety goggles or full face shield.
Skin Protection	Use gloves when contact with product may occur. DO NOT use natural rubber gloves when handling this product. Viton or Silvershield gloves offer the best extended protection. Nitrile, neoprene or butyl gloves offer less protection and should be used for splash protection only.
Body Protection	No data available
Respiratory Protection	Use full face piece, NIOSH approved organic vapor respirator.

Control of Environmental Exposure

Prevent migration into sewer or waterway.

9. Physical and chemical properties

Appearance	1-Bromopropane	Clear, colorless to yellow liquid
Odor	1-Bromopropane	Characteristic
Odor Threshold	1-Bromopropane	Not available
pH	1-Bromopropane	6.8 estimated based on nPB
Melting/Freezing Point	1-Bromopropane	-110° C estimated based on nPB
Initial Boiling Point/Range	1-Bromopropane	158°F (700C)
Flash Point	T Butyl Acetate	39F (4C)
Evaporation Rate	1-Bromopropane	4.7
Flammability	1-Bromopropane	Not available
Upper Explosion Limit	T Butyl Acetate	6.88%
Lower Explosion Limit	T Butyl Acetate	1.26%
Vapor Pressure	1-Bromopropane	134@ 25°C
Vapor Density	1-Bromopropane	4.24 estimated based on nPB
Relative Density	1-Bromopropane	4.24 estimated based on nPB
Water Solubility	1-Bromopropane	0.24 estimated based on nPB

Partition Coefficient	1-Bromopropane	No information available
Auto Ignition Temperature	1-Bromopropane	860°F (460°C)
Decomposition Temperature	1-Bromopropane	No information available
Viscosity	1-Bromopropane	No information available

10. Stability and reactivity

Reactivity Hazardous polymerization will not occur

Chemical Stability Stable under normal conditions.

Possibility of Hazardous Reactions Organic Peroxide: No; Pyroforic: No; Water Reactive: No

Conditions to Avoid Avoid open flame, electric arc and other high energy ignition sources. Prolonged contact with free water may result in diminished stabilizer and corrosion.

Incompatible materials Incompatible with strong alkalies, oxidizers, bases, reactive metals and natural rubber.

Hazardous Decomposition Products Thermal decomposition produces carbon monoxide, carbon dioxide, and hydrogen bromide.

11. Toxicological information

Name	**CAS**
Tert-Butyl Acetate	540-88-5

LD50 Oral - Rat - male - 4,100 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg

Skin corrosion/irritation Result: No skin irritation - 4 h

Serious eye damage/eye irritation Result: No eye irritation - 72 h

Respiratory or skin sensitization Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity Result: negative

Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, ACGIH, or OSHA

Reproductive No data available

Additional information No data available

Name	CAS
1-Bromopropane	106-94-5

Oral LD50 Inhalation rat: 30 min. 50,291 ppm

inhalation LC50 rat: 30 min. 50,291 ppm
4 hour 14,374 ppm

Dermal: no data available

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity Negative

Carcinogenicity NTP - reasonably anticipated to be a human carcinogen

Reproductive No information available.

Additional information High concentration are irritating to the respiratory tract and may cause headache, dizziness, nausea, voming, or narcosis. Chronic overexposure at high levels may cause adverse effects in the central nervous system, reproductive system, respiratory system, kidney and liver. Persons having pre-existing diseases of the lungs, eyes, or skin may have an increased susceptibility to the hazards of excessive exposure.

Name	CAS
1,2 butylene oxide	106-88-7

LD50 Oral - Rat - 500 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - 1,741 mg/kg

Skin corrosion/irritation Mild skin irritation

Serious eye damage/eye irritation Moderate eye irritation

Respiratory or skin sensitization No information available.

Germ cell mutagenicity Laboratory experiments have shown mutagenic effects.

Carcinogenicity IARC: 2B - Group 2B: Possibly carcinogenic to humans (1,2 Epoxybutane)

Reproductive No data available

Additional information Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Name	CAS
n-Propanol	71-23-8

LD50 Oral - Rat - 8,038 mg/kg

LC50 Inhalation - Rat - 1 h - 20000 ppm

LC50 Dermal - Rabbit - 4,000 mg/kg

Skin corrosion/irritation Result: No skin irritation

Serious eye damage/eye irritation Result: Severe eye irritation

Respiratory or skin sensitization Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity No data available

Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA.

Reproductive No data available

Additional information May cause drowsiness or dizziness. Central nervous system depression, prolonged or repeated exposure can cause:, narcosis, Skin irritation

Name	CAS
t-butyl alcohol	75-65-0

LD50 Oral - Rat - 5,800 mg/kg

LC50 Inhalation - Rat - 8 h - 50,100 mg/m3

LD50 Dermal - Guinea pig - 7,426 mg/kg

Skin corrosion/irritation Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation Result: Eye irritation - 24 h

Respiratory or skin sensitization Result: Does not cause skin sensitisation.

Germ cell mutagenicity No data available

Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA

Reproductive No data available

Additional information Kidney Irregulatories, Skin Dermatitis

12. Ecological information

Name	CAS	Toxicity
Tert-Butyl Acetate	540-88-5	LD50 Oral - Rat - male - 4,100 mg/kg LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg
1-Bromopropane	106-94-5	LC50 (96 Hours) For Fathead Minnows

1,2 butylene oxide	106-88-7	No data available
n-Propanol	71-23-8	LC50 - Pimephales promelas (fathead minnow) - 4,555 mg/l - 96 h EC50 - Daphnia magna (Water flea) - 3,642 mg/l - 48 h EC50 - Pseudokirchneriella subcapitata (green algae) - 9,170 mg/l - 48 h
t-butyl alcohol	75-65-0	Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 6,140 mg/l - 96 h, EC50 - Daphnia magna (Water flea) - 933 mg/l - 48 h

13. Disposal considerations

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

14. Transport information

Proper Shipping Name	Flammable Liquids, n.o.s. (Butyl Acetate)
Hazard Class	3
Identification Number	UN1993
Packing Group	II
Label	Flammable

15. Regulatory information

Name	**CAS**
Tert-Butyl Acetate	540-88-5

SARA 302/304	No data available
SARA 313	No data available
CERCLA	RQ = 5,000 lbs
SARA 311/312	No data available
PROP 65	No data available

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Name	CAS
1-Bromopropane	106-94-5

SARA 302/304 No components were identified

SARA 313 No components were identified

CERCLA No components were identified

SARA 311/312 No components were identified

PROP 65 Cancer hazard, and developmental hazard (male and female)

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Name	CAS
1,2 butylene oxide	106-88-7

SARA 302/304 No components were identified

SARA 313 313

CERCLA RQ = 100 lbs

SARA 311/312 No components were identified

PROP 65 No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Name	CAS
n-Propanol	71-23-8

SARA 302/304 No components were identified

SARA 313 No components were identified

CERCLA No components were identified

SARA 311/312 Fire Hazard, Acute Health Hazard, Chronic Health Hazard

PROP 65 No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Name	CAS
t-butyl alcohol	75-65-0
SARA 302/304	No components were identified
SARA 313	313
CERCLA	No components were identified
SARA 311/312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
PROP 65	No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

16. Other information, including date of preparation or last revision

SDS Date: 8/8/2017

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