SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Revision Date 12-Dec-2024 **Version** 1

1. Identification

Product identifier

Product Name BLACK WEATHERSTRIP ADHESIVE 2 OZ.

Other means of identification

Product Code 81852

UN number or ID number UN1133

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Contact adhesive

Restrictions on use No information available

Details of the supplier of the safety data sheet

Manufacturer Address
ITW Permatex, Inc.
6875 Parkland Blvd.
Solon, Ohio 44139 USA
Telephone: 1-87-Permatex
(866) 732-9502

May Also Be Distributed by:
ITW Permatex Canada
101-2360 Bristol Circle
Oakville, ON Canada L6H 6M5
Telephone: (800) 924-6994

E-mail address mail@permatex.com

Emergency telephone number

24 Hour Emergency Phone Number Chem-Tel: 800-255-3924
International Emergency:
00+1+ 813-248-0585
Contract Number: MIS0003453

24-hour emergency phone number No information available

2. Hazard(s) identification

Classification

Flammable liquids	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

Aspiration hazard	Category 1

Label elements

Contains TOLUENE; METHYL ETHYL KETONE (BUTANONE); ACETONE; N-HEXANE; CARBON BLACK

Danger

Hazard statements
Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.

Precautionary Statements - Prevention
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves, protective clothing, eye protection and face protection.
Wash face, hands and any exposed skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Do not breathe dust.
Do not eat, drink or smoke when using this product.
Ground and bond container and receiving equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Use explosion-proof electrical, ventilating and lighting equipment.
Keep cool.
Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see supplemental first aid instructions on this label).
Eyes
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 and attention.
Skin
IF ON SKIN: Wash with plenty of water and soap.
If skin irritation occurs: Get medical advice and attention.
Take off contaminated clothing and wash it before reuse.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Inhalation
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor if you feel unwell.
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Do NOT induce vomiting.
Fire
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Precautionary Statements - Storage
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.
Precautionary Statements - Disposal
Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

12.03 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
14.53 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
84.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
52.88 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
46.15 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Other Information
Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
TOLUENE	108-88-3	10-30%	-	-
METHYL ETHYL KETONE (BUTANONE)	78-93-3	10-30%	-	-
ACETONE	67-64-1	10-30%	-	-
N-HEXANE	110-54-3	10-30%	-	-
MAGNESIUM OXIDE	1309-48-4	1-5%	-	-
AMORPHOUS SILICA	7631-86-9	1-5%	-	-
CARBON BLACK	1333-86-4	0.1-1%	-	-

4. First-aid measures

Description of first aid measures

General advice IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Inhalation Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use

personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Effects of Exposure May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility. Causes damage to organs through prolonged or repeated exposure. Suspected of causing cancer.

Indication of any immediate medical attention and special treatment needed

Note to physicians Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.

5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.

8. Exposure controls/personal protection

Control Parameters
Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
TOLUENE 108-88-3	TWA: 20 ppm pOt	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m³ Ceiling: 300 ppm	TWA: 100 ppm; TWA: 375 mg/m³; STEL: 150 ppm STEL: 560 mg/m³ IDLH: 500 ppm
METHYL ETHYL KETONE (BUTANONE) 78-93-3	TWA: 75 ppm STEL: 150 ppm pSk	TWA: 200 ppm TWA: 590 mg/m³ (vacated) TWA: 200 ppm (vacated) TWA: 590 mg/m³ (vacated) STEL: 300 ppm (vacated) STEL: 885 mg/m³	TWA: 200 ppm; TWA: 590 mg/m³; STEL: 300 ppm STEL: 885 mg/m³ IDLH: 3000 ppm
ACETONE 67-64-1	TWA: 250 ppm STEL: 500 ppm	TWA: 1000 ppm TWA: 2400 mg/m³ (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m³ (vacated) STEL: 2400 mg/m³ The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors. (vacated) STEL: 1000 ppm	TWA: 250 ppm; TWA: 590 mg/m³; IDLH: 2500 ppm
N-HEXANE 110-54-3	TWA: 50 ppm pSk	TWA: 500 ppm TWA: 1800 mg/m³ (vacated) TWA: 50 ppm (vacated) TWA: 180 mg/m³	TWA: 50 ppm; TWA: 180 mg/m³; IDLH: 1100 ppm
MAGNESIUM OXIDE 1309-48-4	TWA: 10 mg/m³ inhalable particulate matter	TWA: 15 mg/m³ fume, total particulate (vacated) TWA: 10 mg/m³	IDLH: 750 mg/m³ fume

		fume and total particulate	
AMORPHOUS SILICA 7631-86-9	-	(vacated) TWA: 6 mg/m³ <1% Crystalline silica TWA: 20 mppcf : (80)/(% SiO2) mg/m³ TWA	TWA: 6 mg/m³; IDLH: 3000 mg/m³
CARBON BLACK 1333-86-4	TWA: 3 mg/m³ inhalable particulate matter	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³	TWA: 3.5 mg/m³; TWA: 0.1 mg/m³; Carbon black in presence of Polycyclic aromatic hydrocarbons PAH IDLH: 1750 mg/m³

Chemical name	Alberta	British Columbia	Ontario	Quebec
TOLUENE 108-88-3	TWA: 50 ppm; TWA: 188 mg/m³; pSk	TWA: 20 ppm; Adverse reproductive effect	TWA: 20 ppm;	TWAEV: 20 ppm;
METHYL ETHYL KETONE (BUTANONE) 78-93-3	TWA: 200 ppm; TWA: 590 mg/m³; STEL: 300 ppm; STEL: 885 mg/m³;	TWA: 50 ppm; STEL: 100 ppm; Adverse reproductive effect Sk	TWA: 200 ppm; STEL: 300 ppm;	TWAEV: 50 ppm; TWAEV: 150 mg/m³; STEV: 100 ppm; STEV: 300 mg/m³;
ACETONE 67-64-1	TWA: 500 ppm; TWA: 1200 mg/m³; STEL: 750 ppm; STEL: 1800 mg/m³;	TWA: 250 ppm; STEL: 500 ppm;	TWA: 250 ppm; STEL: 500 ppm;	TWAEV: 250 ppm; STEV: 500 ppm;
N-HEXANE 110-54-3	TWA: 50 ppm; TWA: 176 mg/m³; pSk	TWA: 20 ppm; Sk	TWA: 50 ppm; dSk	TWAEV: 50 ppm; TWAEV: 176 mg/m³; Sd
MAGNESIUM OXIDE 1309-48-4	TWA: 10 mg/m³; fume	TWA: 10 mg/m³; fume, inhalable TWA: 3 mg/m³; respirable dust and fume STEL: 10 mg/m³; respirable dust and fume	TWA: 10 mg/m³; inhalable particulate matter	TWAEV: 10 mg/m³; inhalable dust
CARBON BLACK 1333-86-4	TWA: 3.5 mg/m³;	TWA: 3 mg/m³; inhalable	TWA: 3 mg/m³; inhalable particulate matter	TWAEV: 3 mg/m³; inhalable dust

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
TOLUENE	TWA: 20 ppm;	TWA: 20 ppm;	TWA: 20 ppm;	TWA: 20 ppm;
METHYL ETHYL KETONE (BUTANONE)	TWA: 75 ppm; STEL: 150 ppm; pSk	TWA: 200 ppm; STEL: 300 ppm;	TWA: 75 ppm; STEL: 150 ppm; pSk	TWA: 75 ppm; STEL: 150 ppm; pSk
ACETONE	TWA: 250 ppm; STEL: 500 ppm;	TWA: 250 ppm; STEL: 500 ppm;	TWA: 250 ppm; STEL: 500 ppm;	TWA: 250 ppm; STEL: 500 ppm;
N-HEXANE	TWA: 50 ppm; pSk	TWA: 50 ppm; pSk	TWA: 50 ppm; pSk	TWA: 50 ppm; pSk
MAGNESIUM OXIDE	TWA: 10 mg/m³; inhalable particulate matter	TWA: 10 mg/m³; inhalable fraction	TWA: 10 mg/m³; inhalable particulate matter	TWA: 10 mg/m³; inhalable particulate matter
CARBON BLACK	TWA: 3 mg/m³; inhalable particulate matter	TWA: 3 mg/m³; inhalable fraction	TWA: 3 mg/m³; inhalable particulate matter	TWA: 3 mg/m³; inhalable particulate matter

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
TOLUENE	TWA: 50 ppm; STEL: 60 ppm; Sk	TWA: 20 ppm;	TWA: 50 ppm; STEL: 60 ppm; pSd	TWA: 100 ppm; TWA: 375 mg/m³; STEL: 150 ppm; STEL: 560 mg/m³;

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
				Sk
METHYL ETHYL KETONE (BUTANONE)	TWA: 200 ppm; STEL: 300 ppm;	TWA: 75 ppm; STEL: 150 ppm;	TWA: 200 ppm; STEL: 300 ppm;	TWA: 200 ppm; TWA: 590 mg/m³; STEL: 250 ppm; STEL: 740 mg/m³;
ACETONE	TWA: 500 ppm; STEL: 750 ppm;	TWA: 250 ppm; STEL: 500 ppm;	TWA: 500 ppm; STEL: 750 ppm;	TWA: 1000 ppm; TWA: 2400 mg/m³; STEL: 1250 ppm; STEL: 3000 mg/m³;
N-HEXANE	TWA: 50 ppm; STEL: 62.5 ppm; Sk	TWA: 50 ppm;	TWA: 50 ppm; STEL: 62.5 ppm; pSd	TWA: 100 ppm; TWA: 360 mg/m³; STEL: 125 ppm; STEL: 450 mg/m³;
MAGNESIUM OXIDE	TWA: 10 mg/m³; inhalable fraction STEL: 20 mg/m³; inhalable fraction	TWA: 10 mg/m³; inhalable particulate matter	TWA: 10 mg/m³; inhalable fraction STEL: 20 mg/m³; inhalable fraction	TWA: 10 mg/m³; fume STEL: 10 mg/m³; fume
AMORPHOUS SILICA				TWA: 300 particle/mL; TWA: 20 mppcf; TWA: 2 mg/m³; respirable mass
CARBON BLACK	TWA: 3.5 mg/m³; STEL: 7 mg/m³;	TWA: 3 mg/m³; inhalable particulate matter	TWA: 3.5 mg/m³; STEL: 7 mg/m³;	TWA: 3.5 mg/m³; STEL: 7 mg/m³;

Biological occupational exposure limits

Chemical name	ACGIH
TOLUENE 108-88-3	0.02 mg/L - blood (Toluene) - prior to last shift of workweek 0.03 mg/L - urine (Toluene) - end of shift 0.3 mg/g creatinine - urine (o-Cresol with hydrolysis) - end of shift
METHYL ETHYL KETONE (BUTANONE) 78-93-3	2 mg/L - urine (MEK) - end of shift
ACETONE 67-64-1	25 mg/L - urine (Acetone) - end of shift
N-HEXANE 110-54-3	0.5 mg/L - urine (2,5-Hexanedione without hydrolysis) - end of shift

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Tight sealing safety goggles.

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Antistatic boots. Chemical resistant apron. Wear fire/flame resistant/retardant clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Use appropriate respiratory protection.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	No information available
Color	Black
Odor	No information available
Odor threshold	No information available

Property	**Values**	**Remarks • Method**
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	55 °C / 131 °F	
Flash point	-26 °C / -14.8 °F	Tag Closed Cup
Evaporation rate	< 1	Butyl acetate = 1
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability limit:	13.0%	
Lower flammability limit:	1.2%	
Vapor pressure	175 mmHg @ 68°F	
Vapor density	>1	Air = 1
Relative density	0.899	
Water solubility	Negligible	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Particle characteristics		
Particle Size	No data available	
Particle Size Distribution	No data available	

Other information

Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	No information available
VOC content	67.47
Density	No information available
Bulk density	No information available

10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx).

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact Specific test data for the substance or mixture is not available. May cause irritation. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact Repeated exposure may cause skin dryness or cracking. Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity .

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral)	5,661.60 mg/kg
ATEmix (dermal)	7,576.80 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapor)	77.70 mg/l
ATEmix (inhalation-dust/mist)	24.3096 mg/l

12.03 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
14.53 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
84.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
52.88 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
46.15 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
TOLUENE 108-88-3	= 5000 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h
METHYL ETHYL KETONE (BUTANONE) 78-93-3	= 2483 mg/kg (Rat)	= 5000 mg/kg (Rabbit)	= 11700 ppm (Rat) 4 h
ACETONE 67-64-1	= 5800 mg/kg (Rat)	> 15700 mg/kg (Rabbit)	= 50100 mg/m^3 (Rat) 8 h
N-HEXANE 110-54-3	= 25 g/kg (Rat)	= 3000 mg/kg (Rabbit)	= 48000 ppm (Rat) 4 h
MAGNESIUM OXIDE 1309-48-4	= 3990 mg/kg (Rat) = 3870 mg/kg (Rat)	-	-
AMORPHOUS SILICA 7631-86-9	= 7900 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 5.01 mg/L (Rat) 4 h
CARBON BLACK 1333-86-4	> 10000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 4.6 mg/m^3 (Rat) 4 h

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

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
TOLUENE 108-88-3	A4 - Not Classifiable as a Human Carcinogen	Group 3 - Unclassifiable as to carcinogenicity in humans	-	-
ACETONE 67-64-1	A4 - Not Classifiable as a Human Carcinogen	-	-	-
MAGNESIUM OXIDE 1309-48-4	A4 - Not Classifiable as a Human Carcinogen	-	-	-
AMORPHOUS SILICA 7631-86-9	-	Group 3 - Unclassifiable as to carcinogenicity in humans	-	-
CARBON BLACK 1333-86-4	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	Group 2B - Possibly carcinogenic to humans	-	Present

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to carcinogenicity in humans
Occupational Safety and Health Administration of the US Department of Labor
X - Present

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.

STOT - single exposure May cause drowsiness or dizziness.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
TOLUENE 108-88-3	EC50: >433mg/L (96h, Pseudokirchneriella subcapitata) EC50: =12.5mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 15.22 - 19.05mg/L (96h, Pimephales promelas) LC50: =12.6mg/L (96h, Pimephales promelas) LC50: 5.89 - 7.81mg/L (96h, Oncorhynchus mykiss) LC50: 14.1 - 17.16mg/L (96h, Oncorhynchus mykiss) LC50: =5.8mg/L (96h, Oncorhynchus mykiss) LC50: 11.0 - 15.0mg/L (96h, Lepomis macrochirus) LC50: =54mg/L (96h, Oryzias latipes) LC50: =28.2mg/L (96h, Poecilia reticulata) LC50: 50.87 - 70.34mg/L (96h, Poecilia reticulata)	-	EC50: 5.46 - 9.83mg/L (48h, Daphnia magna) EC50: =11.5mg/L (48h, Daphnia magna)
METHYL ETHYL KETONE (BUTANONE) 78-93-3	-	LC50: 3130 - 3320mg/L (96h, Pimephales promelas)	-	EC50: >520mg/L (48h, Daphnia magna) EC50: =5091mg/L (48h, Daphnia magna) EC50: 4025 - 6440mg/L (48h, Daphnia magna)
ACETONE 67-64-1	-	LC50: 4.74 - 6.33mL/L (96h, Oncorhynchus mykiss) LC50: 6210 - 8120mg/L (96h, Pimephales promelas) LC50: =8300mg/L (96h, Lepomis macrochirus)	-	EC50: 10294 - 17704mg/L (48h, Daphnia magna) EC50: 12600 - 12700mg/L (48h, Daphnia magna)
N-HEXANE 110-54-3	-	LC50: 2.1 - 2.98mg/L (96h, Pimephales promelas)	-	-
AMORPHOUS SILICA 7631-86-9	EC50: =440mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =5000mg/L (96h, Brachydanio rerio)	-	EC50: =7600mg/L (48h, Ceriodaphnia dubia)

Persistence and degradability No information available.

Bioaccumulation

Component Information

Chemical name	Partition coefficient
TOLUENE 108-88-3	3.93
METHYL ETHYL KETONE (BUTANONE) 78-93-3	0.3
ACETONE 67-64-1	-0.24
N-HEXANE 110-54-3	4

Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.
US EPA Waste Number	Waste designations and classifications should be determined by the end user based on the application for which the product was used.
California waste information	This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

DOT

UN number or ID number	UN1133
Proper shipping name	Adhesives
Transport hazard class(es)	3
Packing group	II
DOT Marine Pollutant	P
Marine pollutant	N-HEXANE.
Description	UN1133, Adhesives, 3, II
Special Provisions	149, B52, IB2, T4, TP1, TP8
Emergency Response Guide Number	128

TDG

UN number or ID number	UN1133
UN proper shipping name	Adhesives
Transport hazard class(es)	3
Packing group	II
Description	UN1133, Adhesives, 3, II

MEX

UN number or ID number	UN1133
UN proper shipping name	Adhesives
Transport hazard class(es)	3
Packing group	II
Description	UN1133, Adhesives, 3, II

ICAO (air)

UN number or ID number	UN1133
UN proper shipping name	Adhesives
Transport hazard class(es)	3
Packing group	II
Description	UN1133, Adhesives, 3, II
Special Provisions	A3

IATA

UN number or ID number	UN1133
UN proper shipping name	Adhesives
Transport hazard class(es)	3
Packing group	II
ERG Code	3L
Special Provisions	A3
Description	UN1133, Adhesives, 3, II

IMDG

UN number or ID number	UN1133
UN proper shipping name	Adhesives
Transport hazard class(es)	3
Packing group	II
EmS-No.	F-E, S-D
Description	UN1133, Adhesives, 3, II, (-26°C c.c.)

15. Regulatory information

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

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Complies
KECI	Complies
PICCS	Does not comply
AICS	Complies
NZIoC	Complies

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

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 %
TOLUENE - 108-88-3	1.0
N-HEXANE - 110-54-3	1.0

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority	CWA - Hazardous

	Quantities		Pollutants	Substances
TOLUENE 108-88-3	1000 lb	X	X	X

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).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
TOLUENE 108-88-3	1000 lb / 1 lb / kg (final RQ) kg (final RQ)	-	RQ 1000 lb final RQ RQ 454 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ
METHYL ETHYL KETONE (BUTANONE) 78-93-3	5000 lb / kg (final RQ)	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
ACETONE 67-64-1	5000 lb / kg (final RQ)	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
N-HEXANE 110-54-3	5000 lb / kg (final RQ)	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
TOLUENE - 108-88-3	Developmental
N-HEXANE - 110-54-3	Developmental
AMORPHOUS SILICA - 7631-86-9	*Carcinogen
CARBON BLACK - 1333-86-4	*Carcinogen (airborne, unbound particles of respirable size)

*The asterisked chemical(s) listed are not subject to Proposition 65 because they are not airborne in the finished product

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
TOLUENE 108-88-3	X	X	X
METHYL ETHYL KETONE (BUTANONE) 78-93-3	X	X	X
ACETONE 67-64-1	X	X	X
N-HEXANE 110-54-3	X	X	X
MAGNESIUM OXIDE 1309-48-4	X	X	X
AMORPHOUS SILICA 7631-86-9	-	X	X
CARBON BLACK 1333-86-4	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA	**Health hazards** 2	**Flammability** 3	**Instability** 0	**Special hazards** -
HMIS	**Health hazards** 3 *	**Flammability** 3	**Physical hazards** 0	**Personal protection** X

Chronic Hazard Star Legend ** = Chronic Health Hazard*

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend
SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
STOT: Specific Target Organ Toxicity
ATE: Acute Toxicity Estimate
LC50: 50% Lethal Concentration
LD50: 50% Lethal Dose

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitizers		

Key literature references and sources for data used to compile the SDS
U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
U.S. Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

Revision Date 12-Dec-2024

Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.