



# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>OCAL Spray Patch - Dark Gray</b>	
<b>Other means of identification</b>		
<b>SDS number</b>	SDS - 00024	
<b>Product code</b>	SPRAY-G	
<b>Recommended use</b>	Vinyl Resin Coating.	
<b>Recommended restrictions</b>	None known.	
<b>Manufacturer/Importer/Supplier/Distributor information</b>		
<b>Company name</b>	ABB Installation Products Inc.	
<b>Address</b>	860 Ridge Lake Blvd. Memphis, TN 38120 USA	
<b>Telephone</b>	901-252-5000 ext. 8324	
<b>Emergency telephone</b>	INFOTRAC - 24 HOURS:	1-800-535-5053 +1 352-323-3500 (Outside USA)

## 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable aerosols	Category 1
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity (inhalation)	Category 2
	Reproductive toxicity	Category 1A
	Aspiration hazard	Category 1
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Extremely flammable aerosol. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May damage fertility or the unborn child. May be fatal if swallowed and enters airways.
<b>Precautionary statement</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	If exposed or concerned: Get medical advice/attention. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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.
<b>Storage</b>	Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.

Supplemental information None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
Acetone	67-64-1	30 - 40
Toluene	108-88-3	20 - 30
4-Methylpentan-2-one	108-10-1	10 - 20
Propane	74-98-6	10 - 20
Diisononyl phthalate	28553-12-0	1 - 5
Methyl ethyl ketone	78-93-3	1 - 5
Carbon black	1333-86-4	0.1 - 1
Titanium dioxide	13463-67-7	0.1 - 1

**Composition comments** The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.  
All concentrations are in percent by weight unless otherwise indicated. Components not listed are either non-hazardous or are below reportable limits.

### 4. First-aid measures

**Inhalation** Remove person to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.

**Skin contact** Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**Most important symptoms/effects, acute and delayed** Aspiration may cause pulmonary edema and pneumonitis. Headache. Dizziness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

**Indication of immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information** IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

**Suitable extinguishing media** Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed such as: Carbon oxides. Toxic fumes.

**Special protective equipment and precautions for firefighters** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Fire fighting equipment/instructions** In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. Fight fire from protected location or safe distance. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Stop leak if you can do so without risk. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains.

Pick up undamaged aerosol cans mechanically. Dike leaked material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water. Retain and dispose of contaminated wash water.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

### Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded.

Do not breathe mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Mechanical ventilation or local exhaust ventilation may be required. Do not enter storage areas or confined spaces unless adequately ventilated. Use only outdoors or in a well-ventilated area. Oxygen concentration should not fall below 19.5 % at sea level (pO<sub>2</sub> = 135 mmHg). Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Keep away from heat, sparks and open flame. Store in original tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
4-Methylpentan-2-one (CAS 108-10-1)	PEL	410 mg/m <sup>3</sup>	
		100 ppm	
Acetone (CAS 67-64-1)	PEL	2400 mg/m <sup>3</sup>	
		1000 ppm	
Carbon black (CAS 1333-86-4)	PEL	3.5 mg/m <sup>3</sup>	
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m <sup>3</sup>	
		200 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m <sup>3</sup>	
		1000 ppm	

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m <sup>3</sup>	Total dust.

**US. OSHA Table Z-2 (29 CFR 1910.1000)**

Components	Type	Value
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
4-Methylpentan-2-one (CAS 108-10-1)	STEL	75 ppm	
	TWA	20 ppm	
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Inhalable fraction.
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m <sup>3</sup>	
Toluene (CAS 108-88-3)	TWA	20 ppm	

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
4-Methylpentan-2-one (CAS 108-10-1)	STEL	300 mg/m <sup>3</sup>
		75 ppm
	TWA	205 mg/m <sup>3</sup>
Acetone (CAS 67-64-1)		50 ppm
	TWA	590 mg/m <sup>3</sup>
		250 ppm
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m <sup>3</sup>
Methyl ethyl ketone (CAS 78-93-3)	STEL	885 mg/m <sup>3</sup>
		300 ppm
	TWA	590 mg/m <sup>3</sup>
Propane (CAS 74-98-6)		200 ppm
	TWA	1800 mg/m <sup>3</sup>
		1000 ppm
Toluene (CAS 108-88-3)	STEL	560 mg/m <sup>3</sup>
		150 ppm
	TWA	375 mg/m <sup>3</sup>
		100 ppm

## Biological limit values

### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
4-Methylpentan-2-one (CAS 108-10-1)	1 mg/l	Methyl isobutyl ketone	Urine	*
Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

\* - For sampling details, please see the source document.

## Exposure guidelines

### US - California OELs: Skin designation

Toluene (CAS 108-88-3)

Can be absorbed through the skin.

### US - Minnesota Haz Subs: Skin designation applies

Toluene (CAS 108-88-3)

Skin designation applies.

## Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Provide easy access to water supply and eye wash facilities.

## Individual protection measures, such as personal protective equipment

### Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

### Skin protection

#### Hand protection

Wear appropriate chemical resistant gloves. Nitrile, butyl rubber or neoprene gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

### Skin protection

#### Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

### Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear respiratory protection with combination filter (dust and gas filter) during spraying operations. Follow OSHA respirator regulations (29CFR 1910.134) and use NIOSH/MSHA approved respirators. Check with respiratory protective equipment suppliers.

### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

## General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

#### Physical state

Liquid.

#### Form

Aerosol.

#### Color

Dark gray.

### Odor

Solvent.

### Odor threshold

Not available.

### pH

Not applicable.

### Melting point/freezing point

Not available.

### Initial boiling point and boiling range

Not available.

### Flash point

Not available.

<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Extremely flammable aerosol.
<b>Upper/lower flammability or explosive limits</b>	
Explosive limit - lower (%)	1 %
Explosive limit - upper (%)	10 %
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	0.8 (Water=1)
<b>Solubility(ies)</b>	
Solubility (water)	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not applicable for mixtures.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
VOC	4.15 lb/gal (less exempt)

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contents under pressure. Do not puncture. Protect against direct sunlight. Avoid heat, sparks, open flames and other ignition sources. In a fire or if heated, a pressure increase will occur and the container may burst or explode. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Decomposition is not expected under normal conditions of use and storage. Thermal decomposition of this product can generate carbon monoxide and carbon dioxide. Toxic fumes.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

**Symptoms related to the physical, chemical and toxicological characteristics**      Aspiration may cause pulmonary edema and pneumonitis. Headache. Dizziness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

### Information on toxicological effects

**Acute toxicity**      Not expected to be acutely toxic.

Components	Species	Test Results
4-Methylpentan-2-one (CAS 108-10-1)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Rat	2000 - 4000 ppm, 4 Hours
Acetone (CAS 67-64-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 15700 mg/kg, 24 Hours

Components	Species	Test Results
<b>Inhalation</b>		
<i>Vapor</i>		
LC50	Rat	76 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	5800 mg/kg
Carbon black (CAS 1333-86-4)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	> 3000 mg/kg
<b>Oral</b>		
LD50	Rat	> 8000 mg/kg
Methyl ethyl ketone (CAS 78-93-3)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rat	6400 mg/kg
<b>Inhalation</b>		
<i>Vapor</i>		
LC50	Rat	34.5 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	2600 mg/kg
Propane (CAS 74-98-6)		
<b><u>Acute</u></b>		
<b>Inhalation</b>		
<i>Gas</i>		
LC50	Rat	> 80000 ppm, 15 Minutes
Titanium dioxide (CAS 13463-67-7)		
<b><u>Acute</u></b>		
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
Toluene (CAS 108-88-3)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	12200 mg/kg
<b>Inhalation</b>		
<i>Vapor</i>		
LC50	Rat	28.1 mg/l, 4 Hours
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>	Suspected of causing cancer.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
4-Methylpentan-2-one (CAS 108-10-1)	2B Possibly carcinogenic to humans.	
Carbon black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.	
Titanium dioxide (CAS 13463-67-7)	2B Possibly carcinogenic to humans.	
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.	
<b>NTP Report on Carcinogens</b>		
Carbon black (CAS 1333-86-4)	Known To Be Human Carcinogen.	

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

<b>Reproductive toxicity</b>	May damage fertility or the unborn child.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.
<b>Chronic effects</b>	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

**12. Ecological information****Ecotoxicity** Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Components	Species	Test Results
Acetone (CAS 67-64-1)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	LC50	Daphnia pulex 8800 mg/l, 48 Hours
Fish	LC50	Pimephales promelas 7163 mg/l, 96 Hours
<i>Chronic</i>		
Crustacea	NOEC	Daphnia magna > 79 mg/l, 21 days
Carbon black (CAS 1333-86-4)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Leuciscus idus > 1000 mg/l, 96 Hours
Methyl ethyl ketone (CAS 78-93-3)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna 5091 mg/l, 48 Hours
Fish	LC50	Pimephales promelas 3220 mg/l, 96 Hours
Titanium dioxide (CAS 13463-67-7)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna > 100 mg/l, 48 Hours
Fish	LL50	Oryzias latipes > 100 mg/l, 96 Hours
Toluene (CAS 108-88-3)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna 11.5 mg/l, 48 hours
Fish	LC50	Oncorhynchus kisutch 5.5 mg/l, 96 hours
<i>Chronic</i>		
Crustacea	NOEC	Ceriodaphnia dubia 0.74 mg/l, 7 days
Fish	NOEC	Oncorhynchus kisutch 1.4 mg/l, 40 days

**Persistence and degradability** No data is available on the degradability of this product.**Bioaccumulative potential****Partition coefficient n-octanol / water (log Kow)**

4-Methylpentan-2-one (CAS 108-10-1)	1.31
Acetone (CAS 67-64-1)	-0.24
Methyl ethyl ketone (CAS 78-93-3)	0.29
Propane (CAS 74-98-6)	2.36
Toluene (CAS 108-88-3)	2.73

**Mobility in soil** No data available for this product.

**Other adverse effects** The product contains volatile organic compounds which have a photochemical ozone creation potential. This product contains one or more substances identified as hazardous air pollutants (HAPs) per the US Federal Clean Air Act (see section 15).

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** D001: Waste Flammable material with a flash point <140 F  
D035: Waste Methyl ethyl ketone  
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### 14. Transport information

#### DOT

**UN number** UN1950  
**UN proper shipping name** Aerosols, flammable  
**Transport hazard class(es)**  
**Class** 2.1  
**Subsidiary risk** -  
**Label(s)** 2.1  
**Packing group** -  
**Environmental hazards**  
**Marine pollutant** No  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Special provisions** N82  
**Packaging exceptions** 306  
**Packaging non bulk** None  
**Packaging bulk** None

#### IATA

**UN number** UN1950  
**UN proper shipping name** Aerosols, flammable  
**Transport hazard class(es)**  
**Class** 2.1  
**Subsidiary risk** -  
**Label(s)** 2.1  
**Packing group** -  
**Environmental hazards** No  
**ERG Code** 10L  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### IMDG

**UN number** UN1950  
**UN proper shipping name** AEROSOLS, flammable  
**Transport hazard class(es)**  
**Class** 2  
**Subsidiary risk** -  
**Packing group** -  
**Environmental hazards**  
**Marine pollutant** No  
**EmS** F-D, S-U  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

## 15. Regulatory information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

4-Methylpentan-2-one (CAS 108-10-1)	Listed.
Acetone (CAS 67-64-1)	Listed.
Methyl ethyl ketone (CAS 78-93-3)	Listed.
Propane (CAS 74-98-6)	Listed.
Toluene (CAS 108-88-3)	Listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

#### Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated "active".

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous chemical

Yes

<b>Classified hazard categories</b>	Flammable (gases, aerosols, liquids, or solids)
	Skin corrosion or irritation
	Serious eye damage or eye irritation
	Carcinogenicity
	Reproductive toxicity
	Aspiration hazard

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
4-Methylpentan-2-one	108-10-1	10 - 20
Toluene	108-88-3	20 - 30

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

4-Methylpentan-2-one (CAS 108-10-1)  
Toluene (CAS 108-88-3)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Propane (CAS 74-98-6)

#### Safe Drinking Water Act (SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

#### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

4-Methylpentan-2-one (CAS 108-10-1)	6715
Acetone (CAS 67-64-1)	6532
Methyl ethyl ketone (CAS 78-93-3)	6714
Toluene (CAS 108-88-3)	6594

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

4-Methylpentan-2-one (CAS 108-10-1)	35 %WV
Acetone (CAS 67-64-1)	35 %WV
Methyl ethyl ketone (CAS 78-93-3)	35 %WV
Toluene (CAS 108-88-3)	35 %WV

#### DEA Exempt Chemical Mixtures Code Number

4-Methylpentan-2-one (CAS 108-10-1)	6715
Acetone (CAS 67-64-1)	6532
Methyl ethyl ketone (CAS 78-93-3)	6714
Toluene (CAS 108-88-3)	594

#### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

4-Methylpentan-2-one (CAS 108-10-1)	Low priority
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Acetone (CAS 67-64-1)  
Methyl ethyl ketone (CAS 78-93-3)

Low priority  
Low priority

## US state regulations

### US. Massachusetts RTK - Substance List

4-Methylpentan-2-one (CAS 108-10-1)  
Acetone (CAS 67-64-1)  
Carbon black (CAS 1333-86-4)  
Methyl ethyl ketone (CAS 78-93-3)  
Propane (CAS 74-98-6)  
Titanium dioxide (CAS 13463-67-7)  
Toluene (CAS 108-88-3)

### US. New Jersey Worker and Community Right-to-Know Act

4-Methylpentan-2-one (CAS 108-10-1)  
Acetone (CAS 67-64-1)  
Carbon black (CAS 1333-86-4)  
Methyl ethyl ketone (CAS 78-93-3)  
Propane (CAS 74-98-6)  
Titanium dioxide (CAS 13463-67-7)  
Toluene (CAS 108-88-3)

### US. Pennsylvania Worker and Community Right-to-Know Law

4-Methylpentan-2-one (CAS 108-10-1)  
Acetone (CAS 67-64-1)  
Carbon black (CAS 1333-86-4)  
Methyl ethyl ketone (CAS 78-93-3)  
Propane (CAS 74-98-6)  
Titanium dioxide (CAS 13463-67-7)  
Toluene (CAS 108-88-3)

### US. Rhode Island RTK

4-Methylpentan-2-one (CAS 108-10-1)  
Acetone (CAS 67-64-1)  
Carbon black (CAS 1333-86-4)  
Methyl ethyl ketone (CAS 78-93-3)  
Propane (CAS 74-98-6)  
Titanium dioxide (CAS 13463-67-7)  
Toluene (CAS 108-88-3)

### California Proposition 65



**WARNING:** This product can expose you to chemicals including 4-Methylpentan-2-one, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

4-Methylpentan-2-one (CAS 108-10-1)	Listed: November 4, 2011
Carbon black (CAS 1333-86-4)	Listed: February 21, 2003
Diisononyl phthalate (CAS 28553-12-0)	Listed: December 20, 2013
Titanium dioxide (CAS 13463-67-7)	Listed: September 2, 2011

### California Proposition 65 - CRT: Listed date/Developmental toxin

4-Methylpentan-2-one (CAS 108-10-1)	Listed: March 28, 2014
Toluene (CAS 108-88-3)	Listed: January 1, 1991

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

4-Methylpentan-2-one (CAS 108-10-1)  
Acetone (CAS 67-64-1)  
Carbon black (CAS 1333-86-4)  
Methyl ethyl ketone (CAS 78-93-3)  
Titanium dioxide (CAS 13463-67-7)  
Toluene (CAS 108-88-3)

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

**Issue date** 08-December-2015

**Revision date** 11-June-2024

**Version #** F

**HMIS® ratings** Health: 3\*  
Flammability: 4  
Physical hazard: 3

**NFPA ratings**



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