


# SAFETY DATA SHEET

BG Mass Airflow Sensor Cleaner (Aerosol)




## Section 1. Identification

**GHS product identifier** : BG Mass Airflow Sensor Cleaner (Aerosol)  
**Product code** : 407  
**Other means of identification** : 407-N1A3; 4073  
**Product type** : Aerosol.

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

#### Identified uses

Solvents


**Supplier's details** :  BG Products Inc.  
740 S. Wichita Street  
Wichita, KS, 67213, USA  
www.bgprod.com  
316-266-8120  
msds@bgprod.com

**Emergency telephone number (with hours of operation)** : (800) 424-9300 (CHEMTREC: CCN656479)  
24-hour telephone and/or website



## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).


**Classification of the substance or mixture** :  FLAMMABLE AEROSOLS - Category 1  
ACUTE TOXICITY (dermal) - Category 4  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
TOXIC TO REPRODUCTION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2

### GHS label elements

#### Hazard pictograms



**Signal word** : Danger

**Hazard statements** :  Extremely flammable aerosol.  
Harmful in contact with skin or if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs.

### Precautionary statements

## Section 2. Hazards identification

- Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
- Response** : If exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation occurs: Get medical advice or 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 or attention.
- Storage** : Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : 407-N1A3; 4073

Ingredient name	%	CAS number
Xylene	≥50 - ≤75	1330-20-7
Petroleum gases, liquefied, sweetened	≥10 - ≤25	68476-86-8
acetone	≥10 - <20	67-64-1
4-hydroxy-4-methylpentan-2-one	≤10	123-42-2
methanol	≤5	67-56-1
toluene	<1	108-88-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Section 4. First aid measures

- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled. May cause damage to organs following a single exposure if inhaled.
- Skin contact** : Harmful in contact with skin. May cause damage to organs following a single exposure in contact with skin. Causes skin irritation.
- Ingestion** : May cause damage to organs following a single exposure if swallowed.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



## Section 8. Exposure controls/personal protection

4-hydroxy-4-methylpentan-2-one

TWA: 590 mg/m<sup>3</sup> 10 hours.  
**OSHA PEL (United States, 5/2018).**  
 TWA: 1000 ppm 8 hours.  
 TWA: 2400 mg/m<sup>3</sup> 8 hours.  
**CAL OSHA PEL (United States, 5/2018).**  
 STEL: 1780 mg/m<sup>3</sup> 15 minutes.  
 STEL: 750 ppm 15 minutes.  
 CEIL: 3000 ppm  
 TWA: 1200 mg/m<sup>3</sup> 8 hours.  
 TWA: 500 ppm 8 hours.

**ACGIH TLV (United States, 1/2022).**  
 TWA: 50 ppm 8 hours.  
 TWA: 238 mg/m<sup>3</sup> 8 hours.  
**OSHA PEL 1989 (United States, 3/1989).**  
 TWA: 50 ppm 8 hours.  
 TWA: 240 mg/m<sup>3</sup> 8 hours.  
**NIOSH REL (United States, 10/2020).**  
 TWA: 50 ppm 10 hours.  
 TWA: 240 mg/m<sup>3</sup> 10 hours.  
**OSHA PEL (United States, 5/2018).**  
 TWA: 50 ppm 8 hours.  
 TWA: 240 mg/m<sup>3</sup> 8 hours.  
**CAL OSHA PEL (United States, 5/2018).**  
 TWA: 240 mg/m<sup>3</sup> 8 hours.  
 TWA: 50 ppm 8 hours.

methanol

**ACGIH TLV (United States, 1/2022).**  
**Absorbed through skin.**  
 TWA: 200 ppm 8 hours.  
 TWA: 262 mg/m<sup>3</sup> 8 hours.  
 STEL: 250 ppm 15 minutes.  
 STEL: 328 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL 1989 (United States, 3/1989).**  
**Absorbed through skin.**  
 TWA: 200 ppm 8 hours.  
 TWA: 260 mg/m<sup>3</sup> 8 hours.  
 STEL: 250 ppm 15 minutes.  
 STEL: 325 mg/m<sup>3</sup> 15 minutes.  
**NIOSH REL (United States, 10/2020).**  
**Absorbed through skin.**  
 TWA: 200 ppm 10 hours.  
 TWA: 260 mg/m<sup>3</sup> 10 hours.  
 STEL: 250 ppm 15 minutes.  
 STEL: 325 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL (United States, 5/2018).**  
 TWA: 200 ppm 8 hours.  
 TWA: 260 mg/m<sup>3</sup> 8 hours.  
**CAL OSHA PEL (United States, 5/2018).**  
**Absorbed through skin.**  
 STEL: 325 mg/m<sup>3</sup> 15 minutes.  
 STEL: 250 ppm 15 minutes.  
 CEIL: 1000 ppm  
 TWA: 260 mg/m<sup>3</sup> 8 hours.  
 TWA: 200 ppm 8 hours.

toluene

**OSHA PEL 1989 (United States, 3/1989).**  
 TWA: 100 ppm 8 hours.  
 TWA: 375 mg/m<sup>3</sup> 8 hours.  
 STEL: 150 ppm 15 minutes.  
 STEL: 560 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL Z2 (United States, 2/2013).**  
 TWA: 200 ppm 8 hours.

## Section 8. Exposure controls/personal protection

	<p>CEIL: 300 ppm                  AMP: 500 ppm 10 minutes.  <b>NIOSH REL (United States, 10/2020).</b>                  TWA: 100 ppm 10 hours.                  TWA: 375 mg/m<sup>3</sup> 10 hours.                  STEL: 150 ppm 15 minutes.                  STEL: 560 mg/m<sup>3</sup> 15 minutes.  <b>ACGIH TLV (United States, 1/2022).</b>  <b>Ototoxicant.</b>                  TWA: 20 ppm 8 hours.  <b>CAL OSHA PEL (United States, 5/2018).</b>  <b>Absorbed through skin.</b>                  STEL: 560 mg/m<sup>3</sup> 15 minutes.                  STEL: 150 ppm 15 minutes.                  CEIL: 500 ppm                  TWA: 37 mg/m<sup>3</sup> 8 hours.                  TWA: 10 ppm 8 hours.</p>
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### Biological exposure indices

Ingredient name	Exposure indices
xylene	<p><b>ACGIH BEI (United States, 1/2022)</b>  <b>[XYLENES (technical or commercial grade)]</b>                      BEI: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.</p>
acetone	<p><b>ACGIH BEI (United States, 1/2022)</b>                      BEI: 25 mg/l, acetone [in urine]. Sampling time: end of shift.</p>
methanol	<p><b>ACGIH BEI (United States, 1/2022)</b>                      BEI: 15 mg/l, methanol [in urine]. Sampling time: end of shift.</p>
toluene	<p><b>ACGIH BEI (United States, 1/2022)</b>                      BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift.                      BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.                      BEI: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.</p>

### **Appropriate engineering controls**

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### **Environmental exposure controls**

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 8. Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Liquid. [Aerosol.]
- Color** : Clear.
- Odor** : Solvents
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point, initial boiling point, and boiling range** : Not available.
- Flash point** : Open cup: -96.4°C (-141.5°F)
- Evaporation rate** : >1 (butyl acetate = 1)
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Lower: 0.8%  
Upper: 36%
- Vapor pressure** :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Petroleum gases, liquefied, sweetened	3097.22	412.9	ASTM D 323			
acetone	180.01	24				
methanol	126.96	16.9				
toluene	23.17	3.1				
ethylbenzene	9.3	1.2				
xylene	6.7	0.89				



## Section 9. Physical and chemical properties and safety characteristics

4-hydroxy-4-methylpentan-2-one	0.81	0.11				
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**Relative vapor density** : >1 [Air = 1]

**Relative density** : 0.788

**Solubility(ies)** :

Media	Result
cold water	Very slightly soluble
hot water	Very slightly soluble

**Solubility in water** : Not available.

**Partition coefficient: n-octanol/water** : Not applicable.

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : Not available.

**Heat of combustion** : >30 kJ/g

**Viscosity** : Not available.

**Flow time (ISO 2431)** : Not available.

### Particle characteristics

**Median particle size** : Not applicable.

### Aerosol product

**Type of aerosol** : Spray

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).

**Incompatible materials** : No specific data.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
acetone	LC50 Inhalation Vapor	Rat	76 mg/l	4 hours
	LD50 Dermal	Rabbit	20000 mg/kg	-
	LD50 Oral	Rat	5800 mg/kg	-
4-hydroxy-4-methylpentan-2-one	LD50 Dermal	Rabbit	13500 mg/kg	-
	LD50 Oral	Rat	2520 mg/kg	-
methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours

## Section 11. Toxicological information

toluene	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	5000 mg/kg	-
	LD50 Oral	Rat	636 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
acetone	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Human	-	186300 ppm	-
	Eyes - Mild irritant	Rabbit	-	10 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	395 mg	-
4-hydroxy-4-methylpentan-2-one	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 100 uL	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
methanol	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
toluene	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Severe irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Pig	-	24 hours 250 uL	-
toluene	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

Product/ingredient name	OSHA	IARC	NTP
xylene	-	3	-
toluene	-	3	-

### Reproductive toxicity

Not available.

### Teratogenicity

## Section 11. Toxicological information

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
<input checked="" type="checkbox"/> BG Mass Airflow Sensor Cleaner (Aerosol)	Category 2	-	-
acetone	Category 3	-	Narcotic effects
methanol	Category 1	-	-
toluene	Category 3	-	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
<input checked="" type="checkbox"/> toluene	Category 2	-	-

### Aspiration hazard

Name	Result
<input checked="" type="checkbox"/> toluene	ASPIRATION HAZARD - Category 1

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled. May cause damage to organs following a single exposure if inhaled.
- Skin contact** : Harmful in contact with skin. May cause damage to organs following a single exposure in contact with skin. Causes skin irritation.
- Ingestion** :  May cause damage to organs following a single exposure if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** :  Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** :  Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** :  Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

## Section 11. Toxicological information

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** :  Suspected of damaging the unborn child.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** :  Suspected of damaging fertility.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
<input checked="" type="checkbox"/> BG Mass Airflow Sensor Cleaner (Aerosol)	N/A	1100	8807.5	75.0	1.5
xylene	4300	1100	5000	N/A	N/A
acetone	5800	20000	N/A	76	N/A
4-hydroxy-4-methylpentan-2-one	2520	13500	N/A	N/A	N/A
methanol	100	300	64000	3	N/A
toluene	N/A	5000	N/A	49	N/A

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
acetone	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa - Copepodid	48 hours
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
4-hydroxy-4-methylpentan-2-one	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days
	Acute LC50 420000 µg/l Marine water	Fish - Menidia beryllina	96 hours
methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
toluene	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 >433 ppm Marine water	Algae - Skeletonema costatum	96 hours

## Section 12. Ecological information

	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Daphnia magna	21 days

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Xylene	3.12	8.1 to 25.9	low
Petroleum gases, liquefied, sweetened	1.09	-	low
acetone	-0.23	-	low
4-hydroxy-4-methylpentan-2-one	-0.14 to 1.03	-	low
methanol	-0.77	<10	low
toluene	2.73	90	low

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations







**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

### United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Xylene	1330-20-7	Listed	U239
Acetone (I)	67-64-1	Listed	U002
Methanol (I)	67-56-1	Listed	U154

## Section 14. Transport information

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	UN1950	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	Aerosols	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS	Aerosols, flammable
Transport hazard class(es)	2.1 	2.1 	2.1 	2 	2.1 	2.1 
Packing group	-	-	-	-	-	-
Environmental hazards	No.	<input checked="" type="checkbox"/> No.	<input checked="" type="checkbox"/> No.	No.	No.	No.

### Additional information

#### DOT Classification

- : **Reportable quantity** 176.15 lbs / 79.972 kg [26.81 gal / 101.49 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- Limited quantity** Yes.
- Packaging instruction** Exceptions: 306. Non-bulk: None. Bulk: None.
- Quantity limitation** Passenger aircraft/rail: 75 kg. Cargo aircraft: 150 kg.
- Special provisions** N82

#### TDG Classification

- :  Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).
- Explosive Limit and Limited Quantity Index 1**
- Passenger Carrying Road or Rail Index 75**
- Special provisions** 80, 107

#### Mexico Classification

- : **Special provisions** 63, 190, 277, 327, 344

#### ADR/RID

- : **Limited quantity** 1 L
- Special provisions** 190, 327, 625, 344
- Tunnel code** (D)
- Remarks** Limited quantity

#### IMDG

- : **Emergency schedules** F-D, S-U
- Special provisions** 63, 190, 277, 327, 344, 381, 959
- Remarks** Limited quantity

#### IATA

- : **Quantity limitation** Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y203.
- Special provisions** A145, A167, A802
- Remarks** Limited quantity

#### Special precautions for user

- : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### Transport in bulk according to IMO instruments

- : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) PAIR: 4-hydroxy-4-methylpentan-2-one  
 TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
 Clean Water Act (CWA) 307: toluene; ethylbenzene  
 Clean Water Act (CWA) 311: xylene; toluene; ethylbenzene

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** :  Not listed

**SARA 302/304**

Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

**Classification** :  FLAMMABLE AEROSOLS - Category 1  
 ACUTE TOXICITY (dermal) - Category 4  
 ACUTE TOXICITY (inhalation) - Category 4  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2A  
 TOXIC TO REPRODUCTION - Category 2  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2

Composition/information on ingredients

Name	%	Classification
<input checked="" type="checkbox"/> xylene	≥50 - ≤75	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2
Petroleum gases, liquefied, sweetened	≥10 - ≤25	FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Compressed gas
acetone	≥10 - <20	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
4-hydroxy-4-methylpentan-2-one	≤10	FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A
methanol	≤5	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
toluene	<1	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1

## Section 15. Regulatory information

### SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Xylene	1330-20-7	≥50 - ≤75
	methanol	67-56-1	≤5
Supplier notification	Xylene	1330-20-7	≥50 - ≤75
	methanol	67-56-1	≤5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: XYLENE; ACETONE; DIACETONE ALCOHOL; METHANOL
- New York** : The following components are listed: Xylene mixed; Acetone; Methanol
- New Jersey** : The following components are listed: XYLENES; ACETONE; DIACETONE ALCOHOL; METHYL ALCOHOL; TOLUENE
- Pennsylvania** : The following components are listed: BENZENE, DIMETHYL-; 2-PROPANONE; 2-PENTANONE, 4-HYDROXY-4-METHYL-; METHANOL

### California Prop. 65

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

Ingredient name	No significant risk level	Maximum acceptable dosage level
Methanol	-	Yes.
Toluene	-	Yes.
Ethylbenzene	Yes.	-

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

- Australia** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** : All components are listed or exempted.
- Eurasian Economic Union** : **Russian Federation inventory:** All components are listed or exempted.
- Japan** : **Japan inventory (CSCL):** Not determined.  
**Japan inventory (ISHL):** Not determined.
- New Zealand** : All components are listed or exempted.
- Philippines** : All components are listed or exempted.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : All components are listed or exempted.



## Section 15. Regulatory information

- Thailand** : All components are listed or exempted.  
**Turkey** : Not determined.  
**United States** : All components are active or exempted.  
**Viet Nam** : All components are listed or exempted.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		4
Physical hazards		1

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



### Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
TOXIC TO REPRODUCTION - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2	Regulatory data

### History

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### Key to abbreviations

- : ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 SGG = Segregation Group  
 UN = United Nations

## Section 16. Other information

**References** : Not available.

✔ Indicates information that has changed from previously issued version.

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