SAFETY DATA SHEET

BG Throttle Body & Intake Cleaner (Aerosol)



1. Product and company identification

Manufacturer	: BG Products Inc. 701 S. Wichita Street Wichita, KS, 67213, USA www.bgprod.com
Relevant identified uses of	of the substance or mixture and uses advised against
MSDS #	: 406
Validation date	: 2/7/2013.
Responsible name	: Kolin Anglin, Environmental Coordinator 316-265-2686 msds@bgprod.com
In case of emergency	: (800) 424-9300 (CHEMTREC)

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
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 25%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Extremely flammable aerosol.
Precautionary statements	
Prevention	: Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
Response	: Not applicable.
Storage	: Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.

3. Composition/information on ingredients

Substance/mixture		Mixture
Other means of		Not available.
identification		
CAS number/other identifiers		
CAS number	÷	Not applicable.
Product code	;	406

3. Composition/information on ingredients

Ingredient name	%	CAS number
toluene	30 - 60	108-88-3
acetone	10 - 30	67-64-1
xylene	10 - 30	1330-20-7
ethylbenzene	5 - 10	100-41-4
4-hydroxy-4-methylpentan-2-one	5 - 10	123-42-2
methanol	1 - 5	67-56-1

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

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

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 irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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/effe	cts, acute and delayed
Potential acute health effects	
	No known significant effects or critical hazards.
	No known significant effects or critical hazards.
	No known significant effects or critical hazards.
•	No known significant effects or critical hazards.
Over-exposure signs/sympton	
Eye contact	Adverse symptoms may include the following: irritation redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	No specific data.
Ingestion :	No specific data.

4. First aid measures

Indication of immediate mee	dical 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.		
Contextentering information	n (Castion 14)		

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. 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. Runoff to sewer may create fire or explosion hazard.
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.

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 specialised 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.			

6. Accidental release measures

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.

7. Handling and storage

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

8. **Exposure controls/personal protection**

Control parameters

Occupational exposure limits

Ingredient name			Exposure limits		
toluene			OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm 8 hours. TWA: 375 mg/m ³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m ³ 15 minutes. OSHA PEL Z2 (United States, 11/2006). TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. NIOSH REL (United States, 6/2009). TWA: 100 ppm 10 hours. TWA: 375 mg/m ³ 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m ³ 15 minutes. ACGIH TLV (United States, 3/2012). TWA: 20 ppm 8 hours.		
Acetone			TWA: 500 ppm TWA: 1188 mg STEL: 750 ppn	J/m³ 8 hours.	
Date of issue/Date of revision	: 2/7/2013.	Date of previous issue	: 11/21/2011.	Version : 3	4/15

8. **Exposure controls/personal protection**

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8. Exposure controls/personal protection

	STEL: 328 mg/m ³ 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	Absorbed through skin.
	TWA: 200 ppm 8 hours.
	TWA: 260 mg/m ³ 8 hours.
	STEL: 250 ppm 15 minutes.
	STEL: 325 mg/m ³ 15 minutes.
	NIOSH REL (United States, 6/2009).
	Absorbed through skin.
	TWA: 200 ppm 10 hours.
	TWA: 260 pp/in to fiours.
	STEL: 250 ppm 15 minutes.
	STEL: 325 mg/m ³ 15 minutes.
	OSHA PEL (United States, 6/2010).
	TWA: 200 ppm 8 hours.
	TWA: 260 mg/m³ 8 hours.
Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, 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	: Emissions from ventilation or work process equipment should be checked to ensure
controls	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 meas	· · ·
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.
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: safety glasses with side-shields.
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
, F	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.

8. Exposure controls/personal protection

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. Physical and chemical properties

Physical state	: Liquid. [Aerosol.]	
Flash point	: Not available.	
Auto-ignition temperature	: Not available.	
Flammable limits	: Lower: 0.8% Upper: 36%	
Color	: Colorless.	
Odor	: Solvents	
рН	: Not available.	
Boiling/condensation point	: Not available.	
Melting/freezing point	: Not available.	
Specific gravity	: 0.7363	
Vapor pressure	: Not available.	
Vapor density	: >1 [Air = 1]	
Odor threshold	: Not available.	
Evaporation rate	: >1 (butyl acetate = 1)	
Solubility	: Insoluble in the following materials: cold water and hot water.	
Density	: 6.145 (lbs/gal)	
VOC content	: 80.6 % (w/w)	
Aerosol product		
Type of aerosol	: Spray	
Heat of combustion	: 33 kJ/g	

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 Incompatible materials	Avoid all possible sources of ignition (spark or flame).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

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Acetone	LD50 Oral	Rat	5800 mg/kg	-
xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
-	LD50 Oral	Rat	3500 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
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100	-
				milligrams	
	Eyes - Mild irritant	Rabbit	-	870	-
				Micrograms	
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				microliters	
	Skin - Mild irritant	Rabbit	-	435	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	500	-
No stars	Europ Milel imiterat	Liveran		milligrams	
Acetone	Eyes - Mild irritant	Human	-	186300 parts	-
	Eyes - Mild irritant	Rabbit		per million 10 microliters	
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
	Eyes - Moderate Initant	Rabbit	-	milligrams	-
	Eyes - Severe irritant	Rabbit		20 milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 500	
		Rabbit		milligrams	
	Skin - Mild irritant	Rabbit	-	395	_
				milligrams	
kylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
,	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				milligrams	
	Skin - Mild irritant	Rat	-	8 hours 60	-
				microliters	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	100 Percent	-
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
1 budrova 4 moth deceter 0		Dabbit		milligrams	
4-hydroxy-4-methylpentan-2-one	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 100	-
	Skin - Mild irritant	Dabbit		microliters	
	SKIII - WIIIU II III MAIIL	Rabbit	-	500	-

Section 11. Toxicological information

methanol	Eves - Moderate irritant	Rabbit			-
	,				
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
		Eyes - Moderate irritant	Eyes - Moderate irritant Rabbit	methanolEyes - Moderate irritantRabbit-Eyes - Moderate irritantRabbit-Skin - Moderate irritantRabbit-	Eyes - Moderate irritant Rabbit - 40 milligrams

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
toluene	-	3	-
xylene	-	3	-
ethylbenzene	-	2B	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Acetone	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects

Eye contact	: No known significant	effects or critical hazards.				
Inhalation	: No known significant effects or critical hazards.					
Skin contact	: No known significant	: No known significant effects or critical hazards.				
Ingestion	: No known significant effects or critical hazards.					
Symptoms related to the	physical, chemical and tox	icological characteristics				
Eye contact	: Adverse symptoms n irritation redness	nay include the following:				
Inhalation	: Adverse symptoms n respiratory tract irrita coughing	nay include the following: tion				
Skin contact	: No specific data.					
Ingestion	: No specific data.					
Date of issue/Date of revision	: 2/7/2013. Date of p	previous issue : 11/21/2011.	Version : 3			

Section 11. Toxicological information

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.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
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	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Numerical measures of toxic	<u>ity</u>
Acute toxicity estimates	

Not available.

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
toluene	Acute EC50 433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata	
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus	48 hours
		pseudolimnaeus - Adult	
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 500000 µg/l Fresh water	Algae - Pseudokirchneriella	96 hours
		subcapitata	
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 100000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna -	21 days
		Neonate	
xylene	Acute LC50 8500 µg/I Marine water	Crustaceans - Palaemonetes	48 hours
		pugio	
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata	
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella	96 hours
		subcapitata	
Date of issue/Date of revision	: 2/7/2013. Date of previous issue	:11/21/2011. Version :3	10/

12. Ecological information

 	Acute EC50 2930 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
4-hydroxy-4-methylpentan-2-one	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
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 100000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
toluene	2.73	8.32	low
Acetone	-0.24	-	low
xylene	3.16	-	low
ethylbenzene	3.15	-	low
4-hydroxy-4-methylpentan-2-one	-0.14 to 1.03	-	low
methanol	-0.77	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

Other adverse effects

: Not available.

: No known significant effects or critical hazards.

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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

	DOT Classification	IMDG	IATA
UN number	UN1950	UN1950	UN1950
UN proper shipping name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	Limited quantity	Emergency schedules (EmS) F-D, S-U Remarks Limited quantity	Passenger and Cargo <u>Aircraft</u> Quantity limitation: 75 kg <u>Cargo Aircraft Only</u> Quantity limitation: 150 kg <u>Limited Quantities -</u> <u>Passenger Aircraft</u> Quantity limitation: 30 kg
Transport in bulk to Annex II of MA	event of an ac according : Not available. RPOL	cure. Ensure that persons transporting cident or spillage.	
Transport in bulk to Annex II of MA 73/78 and the IBC 15. Regula	upright and se event of an ac according : Not available. RPOL Code atory information	cure. Ensure that persons transporting cident or spillage.	
Transport in bulk to Annex II of MA 73/78 and the IBC 15. Regula U.S. Federal regu	upright and se event of an ac event of an ac RPOL Code atory information lations : TSCA 8(a) PA TSCA 8(a) CD United States Clean Water A Section 112 : Listed	cure. Ensure that persons transporting	g the product know what to do in the etermined is are listed or exempted. ; benzene
Transport in bulk to Annex II of MA 73/78 and the IBC 15. Regula U.S. Federal regu Clean Air Act S (b) Hazardous Pollutants (HA	upright and se event of an ac according : Not available. RPOL Code atory information lations : TSCA 8(a) PA TSCA 8(a) CD United States Clean Water A Clean Water A Section 112 : Listed Air Ps)	cure. Ensure that persons transporting cident or spillage. IR: 4-hydroxy-4-methylpentan-2-one IR Exempt/Partial exemption: Not de inventory (TSCA 8b): All component Act (CWA) 307: toluene; ethylbenzene	g the product know what to do in the etermined is are listed or exempted. ; benzene
Transport in bulk to Annex II of MA 73/78 and the IBC 15. Regula U.S. Federal regu Clean Air Act S (b) Hazardous Pollutants (HA DEA List II Cha (Essential Che	upright and se event of an ac event of an ac RPOL Code atory information lations : TSCA 8(a) PA TSCA 8(a) CD United States Clean Water A Clean Water A Section 112 : Listed Air Ps) emicals : Listed	cure. Ensure that persons transporting cident or spillage. IR: 4-hydroxy-4-methylpentan-2-one IR Exempt/Partial exemption: Not de inventory (TSCA 8b): All component Act (CWA) 307: toluene; ethylbenzene	e the product know what to do in the etermined is are listed or exempted. ; benzene
Transport in bulk to Annex II of MA 73/78 and the IBC 15. Regula U.S. Federal regu Clean Air Act S (b) Hazardous Pollutants (HA DEA List II Che (Essential Che <u>SARA 302/304</u>	upright and se event of an ac event of an ac RPOL Code atory information lations : TSCA 8(a) PA TSCA 8(a) CD United States Clean Water A Clean Water A Section 112 : Listed Air Ps) emicals : Listed	cure. Ensure that persons transporting cident or spillage. IR: 4-hydroxy-4-methylpentan-2-one IR Exempt/Partial exemption: Not de inventory (TSCA 8b): All component Act (CWA) 307: toluene; ethylbenzene	g the product know what to do in the etermined is are listed or exempted. ; benzene
Transport in bulk to Annex II of MA 73/78 and the IBC 15. Regula U.S. Federal regu (b) Hazardous Pollutants (HA DEA List II Che (Essential Che <u>SARA 302/304</u> <u>Composition/in</u>	upright and se event of an ac RPOL Code atory information lations : TSCA 8(a) PA TSCA 8(a) CD United States Clean Water A Clean Water A Section 112 : Listed Air Ps) emicals : Listed micals)	cure. Ensure that persons transporting cident or spillage. IR: 4-hydroxy-4-methylpentan-2-one IR Exempt/Partial exemption: Not de inventory (TSCA 8b): All component Act (CWA) 307: toluene; ethylbenzene	g the product know what to do in the etermined is are listed or exempted. ; benzene
Transport in bulk to Annex II of MA 73/78 and the IBC 15. Regula U.S. Federal regula (b) Hazardous Pollutants (HA DEA List II Che (Essential Che <u>SARA 302/304</u> <u>Composition/in</u> No products we	upright and se event of an ac event of an ac RPOL Code atory information lations : TSCA 8(a) PA TSCA 8(a) CD United States Clean Water A Clean Water A Section 112 : Listed Air Ps) emicals : Listed micals)	cure. Ensure that persons transporting cident or spillage. IR: 4-hydroxy-4-methylpentan-2-one IR Exempt/Partial exemption: Not de inventory (TSCA 8b): All component Act (CWA) 307: toluene; ethylbenzene Act (CWA) 311: toluene; xylene; ethylb	e the product know what to do in the etermined is are listed or exempted. ; benzene
Transport in bulk to Annex II of MA 73/78 and the IBC 15. Regula U.S. Federal regu (b) Hazardous Pollutants (HA DEA List II Che (Essential Che <u>SARA 302/304</u> <u>Composition/in</u>	upright and se event of an ac RPOL Code atory information lations : TSCA 8(a) PA TSCA 8(a) CD United States Clean Water A Clean Water A Section 112 : Listed Air Ps) emicals : Listed micals)	cure. Ensure that persons transporting cident or spillage. IR: 4-hydroxy-4-methylpentan-2-one IR Exempt/Partial exemption: Not de inventory (TSCA 8b): All component Act (CWA) 307: toluene; ethylbenzene Act (CWA) 311: toluene; xylene; ethylb	e the product know what to do in the etermined is are listed or exempted. ; benzene

15. Regulatory information

Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
toluene	Yes.	No.	No.	Yes.	Yes.
acetone	Yes.	No.	No.	Yes.	Yes.
xylene	Yes.	No.	No.	Yes.	Yes.
4-hydroxy-4-methylpentan-2-one	Yes.	No.	No.	Yes.	Yes.
ethylbenzene	Yes.	No.	No.	Yes.	Yes.
methanol	Yes.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number
Form R - Reporting requirements	toluene xylene ethylbenzene methanol	108-88-3 1330-20-7 100-41-4 67-56-1
Supplier notification	toluene xylene ethylbenzene methanol	108-88-3 1330-20-7 100-41-4 67-56-1

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

State regulations

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

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
toluene	No.	Yes.	No.	7000 μg/day (ingestion)
ethylbenzene	Yes.	No.	41 μg/day (ingestion) 54 μg/day (inhalation)	No.
methanol	No.	Yes.	No.	No.
benzene	Yes.	Yes.	6.4 μg/day (ingestion) 13 μg/day (inhalation)	24 μg/day (ingestion) 49 μg/day (inhalation)

15. Regulatory information

United States inventory (TSCA 8b)	: All components are listed or exempted.
<u>Canada</u>	
WHMIS (Canada)	 Class B-5: Flammable aerosol. Class D-1B: Material causing immediate and serious toxic effects (Toxic). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).
Canadian lists	
Canadian NPRI	: The following components are listed: Toluene; Volatile organic compounds; Xylene (all isomers); Ethylbenzene; Methanol
CEPA Toxic substances	: The following components are listed: Volatile organic compounds
Canada inventory	: All components are listed or exempted.
•	sified in accordance with the hazard criteria of the Controlled Products Regulations he information required by the Controlled Products Regulations.

International regulations

International lists	 Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Japan inventory: Not determined. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
	Taiwan inventory (CSNN): Not determined.

16. Other information

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



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 are not required on MSDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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



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16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>History</u>	
Date of printing	: 2/7/2013.
Date of issue/Date of revision	: 2/7/2013.
Date of previous issue	: 11/21/2011.
Version	: 3
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 = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.