

SAFETY DATA SHEET

(713) 227-1340

1. Identification

Telephone

Website

1. Identification	
Product identifier	DARK CHARCOAL GRAY G037 US
Other means of identification	
Product Code	10889 722108 604
Recommended use	Not available.
Manufacturer/Importer/Supplier/I	Distributor information
Company name	Barwald Industries
Address	1100 Pleasantville Dr.,
	Houston, TX 77029
	United States

General Assistance

www.barwaldindustries.com

Chemtrec Phone Emergency phone number 800-424-9300

2. Hazard(s) identification

Physical hazards	Flammable aerosols	Category 2
	Gases under pressure	Liquefied gas
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 1
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	



Signal word Hazard statement

Label elements

Flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement Prevention

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. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	81.37% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 81.37% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
ACETONE		67-64-1	40 to <50
N-BUTANE		106-97-8	10 to <20
PROPANE		74-98-6	10 to <20
TOLUENE		108-88-3	10 to <20
METHYL ETHYL KETONE		78-93-3	1 to <5
PROPYLENE GLYCOL METHYL ETHER ACETATE		108-65-6	1 to <5
XYLENE		1330-20-7	1 to <5
1-METHYL-2-PYRROLIDONE		872-50-4	0.1 to <1
Butyl benzyl phthalate		85-68-7	0.1 to <1
CARBON BLACK		1333-86-4	0.1 to <1
ETHYLBENZENE		100-41-4	0.1 to <1
TITANIUM DIOXIDE		13463-67-7	0.1 to <1
Other components below reportable I	evels		5 to <10

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
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	Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. 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.
E Fire fighting measures	

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.
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. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. 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. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.
6. Accidental release measures	

Personal precautions, Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or protective equipment and confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing emergency procedures during clean-up. Do not breathe mist or vapor. 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. Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without Methods and materials for risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has containment and cleaning up 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. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all **Environmental precautions** 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. Close valve after each use and when empty. Protect cylinders from physical damage: do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. Level 3 Aerosol. 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. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in a well-ventilated place. 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	Туре	Value	Form
ACETONE (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
CARBON BLACK (CAS 1333-86-4)	PEL	3.5 mg/m3	
ETHYLBENZENE (CAS	PEL	435 mg/m3	
100-41-4)		100	
		100 ppm	
METHYL ETHYL KETONE (CAS 78-93-3)	PEL	590 mg/m3	
		200 ppm	
PROPANE (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
TITANIUM DIOXIDE (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
XYLENE (CAS 1330-20-7)	PEL	435 mg/m3	
US. OSHA Table Z-2 (29 CFR 1910.1	000)	100 ppm	
Components	Туре	Value	
TOLUENE (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
ACETONE (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
CARBON BLACK (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
ETHYLBENZENE (CAS 100-41-4)	TWA	20 ppm	
METHYL ETHYL KETONE (CAS 78-93-3)	STEL	300 ppm	
· · · · · ·	TWA	200 ppm	
N-BUTANE (CAS 106-97-8)	STEL	1000 ppm	
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3	
TOLUENE (CAS 108-88-3)	TWA	20 ppm	
XYLENE (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
US. NIOSH: Pocket Guide to Chemi			
Components	Туре	Value	
ACETONE (CAS 67-64-1)	TWA	590 mg/m3	
ACETONE (CAS 07-04-1)	IWA	-	
	T) 0/ 0	250 ppm	
CARBON BLACK (CAS 1333-86-4)	TWA	0.1 mg/m3	
ETHYLBENZENE (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
METHYL ETHYL KETONE (CAS 78-93-3)	STEL	885 mg/m3	
		300 ppm	
	Τ\Λ/Α	500 mg/m2	
	TWA	590 mg/m3 200 ppm	
		200 ppm	
N-BUTANE (CAS 106-97-8)	TWA TWA	-	

US. NIOSH: Pocket Guide	to Chemical Hazards			
Components	Туре	I.	Val	ue
PROPANE (CAS 74-98-6)	TWA		180	00 mg/m3
				00 ppm
TOLUENE (CAS 108-88-3)	STEL	-) mg/m3
) ppm
	TWA			5 mg/m3
			100) ppm
US. Workplace Environme Components	ntal Exposure Level (\ Type		Val	lue
1-METHYL-2-PYRROLIDO NE (CAS 872-50-4)	TWA			mg/m3
PROPYLENE GLYCOL METHYL ETHER ACETATE (CAS 108-65-6)	TWA			ppm ppm
iological limit values				
ACGIH Biological Exposur	e Indices Value	Determinant	Specimen	Sampling Time
1-METHYL-2-PYRROLIDO NE (CAS 872-50-4)	100 mg/l	5-Hydroxy-N-m ethyl-2-pyrrolid one	Urine	*
ACETONE (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
	0.15 g/g	Sum of	Creatinine in	*
100-41-4)		mandelic acid	urine	
		and phenylglyoxylic acid		
METHYL ETHYL KETONE (CAS 78-93-3)	·	MEK	Urine	*
TOLUENE (CAS 108-88-3)		o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*
XYLENE (CAS 1330-20-7)		Methylhippuric acids	Creatinine in urine	*
* - For sampling details, plea	ise see the source doci	ument.		
posure guidelines				
US - California OELs: Skin	designation			
1-METHYL-2-PYRROLI		Can b	e absorbed throug	gh the skin.
PROPYLENE GLYCOL			e absorbed throug	
(CAS 108-65-6)		Can b		
TOLUENE (CAS 108-88 US - Minnesota Haz Subs:			e absorbed throug	gn the skin.
	-		onignation applie	
TOLUENE (CAS 108-88 US WEEL Guides: Skin de		SKILLO	esignation applies	5.
1-METHYL-2-PYRROLI	•	Can b	e absorbed throug	ah the skin
				-
opropriate engineering ontrols	should be matched or other engineering exposure limits have	to conditions. If ap g controls to mainta e not been establis	plicable, use proc ain airborne levels shed, maintain air	our) should be used. Ventilation rates cess enclosures, local exhaust ventilation s below recommended exposure limits. I borne levels to an acceptable level. Eye e when handling this product.
dividual protection measures Eye/face protection	s, such as personal pr Wear safety glasses			
Skin protection				
Hand protection	Wear appropriate cl supplier.	nemical resistant g	loves. Suitable gl	oves can be recommended by the glove
Other	Wear appropriate cl	nemical resistant o	lothing	
			-	an / aquinmont
Respiratory protection	In case of insufficier	it ventilation, wear	suitable respirato	ory equipment.

Thermal hazards

General hygiene considerations

Wear appropriate thermal protective clothing, when necessary.

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

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Appearance	1 invited
Physical state	Liquid.
Form	Aerosol. Liquefied gas. Not available.
Color Odor	Not available.
	Not available.
Odor threshold	
рН	Not available.
Melting point/freezing point	-305.68 °F (-187.6 °C) estimated
Initial boiling point and boiling range	-43.78 °F (-42.1 °C) estimated
Flash point	-156.0 °F (-104.4 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	1.3 % estimated
Flammability limit - upper (%)	12.8 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	2294.94 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	550 °F (287.78 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	6.07 lbs/gal
Explosive properties	Not explosive.
Flammability class	Flammable IA estimated
Heat of combustion (NFPA 30B)	30.29 kJ/g estimated
Oxidizing properties	Not oxidizing.
Percent volatile	91.4
Specific gravity	0.73
VOC	354.12 g/l Material
	2.96 lbs/gal Material
	584.16 g/l Regulatory
	4.88 lbs/gal Regulatory

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. Acids. Strong oxidizing agents. Nitrates. Halogens. Fluorine. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity	Narcotic effects.	
Components	Species	Test Results
1-METHYL-2-PYRROLIDON	NE (CAS 872-50-4)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	8000 mg/kg
Oral		
LD50	Mouse	5130 mg/kg
	Rat	3914 mg/kg
		4.2 ml/kg
ACETONE (CAS 67-64-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 15800 mg/kg
Inhalation		
LC50	Rat	76 mg/l, 4 Hours
Oral		
LD50	Mouse	3000 mg/kg
	Rat	5800 mg/kg
Butyl benzyl phthalate (CAS	85-68-7)	
<u>Acute</u>		
Dermal		
LD50	Mouse	6700 mg/kg
	Rat	6700 mg/kg
Oral		
LD50	Rat	13500 mg/kg
CARBON BLACK (CAS 133	3-86-4)	
<u>Acute</u>		
Oral		
LD50	Rat	> 8000 mg/kg

Components	Species	Test Results
ETHYLBENZENE (CAS 100-41	-4)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	17800 mg/kg
Oral		
LD50	Rat	3500 mg/kg
METHYL ETHYL KETONE (CA	S 78-93-3)	
<u>Acute</u>		
Dermal LD50	Rabbit	> 2000 mg/kg
	Rabbit	> 8000 mg/kg
Inhalation LC50	Mouse	11000 ppm 45 Minuton
ECSU		11000 ppm, 45 Minutes
	Rat	11700 ppm, 4 Hours
Oral	Mariaa	670 malla
LD50	Mouse	670 mg/kg
	Rat	2300 - 3500 mg/kg
N-BUTANE (CAS 106-97-8)		
<u>Acute</u>		
Inhalation LC50	Mouse	680 mg/l, 2 Hours
2050	Rat	
	Rai	658 mg/l, 4 Hours
PROPANE (CAS 74-98-6)		
<u>Acute</u> Inhalation		
LC50	Rat	> 1442.847 mg/l, 15 Minutes
TOLUENE (CAS 108-88-3)	Kat	
Acute		
Dermal		
LD50	Rabbit	12124 mg/kg
		14.1 ml/kg
Inhalation		Ũ
LC50	Mouse	5320 ppm, 8 Hours
		400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours
		12200 ppm, 2 Hours
		8000 ppm, 4 Hours
Oral		
LD50	Rat	2.6 g/kg
XYLENE (CAS 1330-20-7)	i tut	2.0 yrky
ATLENE (CAS 1330-20-7) Acute		
Dermal		
LD50	Rabbit	> 43 g/kg
Inhalation		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
Oral		
LD50	Mouse	1590 mg/kg

Components	Species	Test Results
	Rat	3523 - 8600 mg/kg
* Estimates for product may b	be based on additional comp	onent data not shown.
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritat	ion.
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitize	er.
Skin sensitization	This product is not expect	ed to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Suspected of causing cancer.	
IARC Monographs. Overall	Evaluation of Carcinogeni	city
Butyl benzyl phthalate (C CARBON BLACK (CAS ETHYLBENZENE (CAS TITANIUM DIOXIDE (CA TOLUENE (CAS 108-88 XYLENE (CAS 1330-20- OSHA Specifically Regulate	1333-86-4) 100-41-4) AS 13463-67-7) -3) -7)	 3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans. 2B Possibly carcinogenic to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 3 Not classifiable as to carcinogenicity to humans. 10.1001-1050)
Not regulated. US. National Toxicology Pr Not listed.	ogram (NTP) Report on Ca	rcinogens
Reproductive toxicity	Components in this product have been shown to cause birth defects and reproductive disorders i laboratory animals. May damage fertility or the unborn child.	
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.	
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects		s through prolonged or repeated exposure. Prolonged inhalation may be sure may cause chronic effects.

12. Ecological information

toxicity	Harmful to	o aquatic life with long lasting effects.	
Components		Species	Test Results
ACETONE (CAS 67-64	l-1)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Butyl benzyl phthalate	(CAS 85-68-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 0.96 mg/l, 48 hours
Fish	LC50	Shiner perch (Cymatogaster aggregata)	0.47 - 0.56 mg/l, 96 hours
ETHYLBENZENE (CA	S 100-41-4)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
METHYL ETHYL KETO	ONE (CAS 78-93-3)	
Aquatic	EC50	Water flea (Daphnia magna)	4025 - 6440 mg/l, 48 hours

Components		Species	Test Results
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	> 400 mg/l, 96 hours
TITANIUM DIOXIDE (CAS 13463-67-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
TOLUENE (CAS 108-	88-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours
XYLENE (CAS 1330-2	20-7)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours
* Estimates for produc	t may be based on	additional component data not shown.	
sistence and degrada	•	s available on the degradability of this produc	ct.
accumulative potentia	•		
Partition apofficient	n actorial (suctor)		

Partition coefficient n-octan	ol / water (log Kow)
1-METHYL-2-PYRROLIDONE	-0.54
ACETONE	-0.24
Butyl benzyl phthalate	4.91
ETHYLBENZENE	3.15
METHYL ETHYL KETONE	0.29
N-BUTANE	2.89
PROPANE	2.36
TOLUENE	2.73
XYLENE	3.12 - 3.2
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. 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	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of 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 (see: Disposal instructions).
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	UN1950, Aerosols, Flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.

Special precautions for user Special provisions Packaging exceptions Packaging non bulk Packaging bulk IATA	Read safety instructions, SDS and emergency procedures before handling. N82 306 None None
UN number	UN1950
UN proper shipping name	Aerosols, Flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1950
UN proper shipping name	Aerosols, Flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
· ·	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.

DOT



Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

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) Exp	ort Notification (40 CFR 707	7, Subpt. D)		
Not regulated.				
TSCA Chemical Action F	Plans, Chemicals of Concer	n		
Butyl benzyl phthalate	e (CAS 85-68-7)	Phthalates Action Plan		
CERCLA Hazardous Sub	ostance List (40 CFR 302.4)			
ACETONE (CAS 67-6	64-1)	Listed.		
Butyl benzyl phthalate	e (CAS 85-68-7)	Listed.		
ETHYLBENZENE (C	AS 100-41-4)	Listed.		
METHYL ETHYL KE	ГONE (CAS 78-93-3)	Listed.		
N-BUTANE (CAS 106	6-97-8)	Listed.		
PROPANE (CAS 74-	98-6)	Listed.		
TOLUENE (CAS 108	-88-3)	Listed.		
XYLENE (CAS 1330-	20-7)	Listed.		
SARA 304 Emergency re	elease notification			
Not regulated.				
Ū	lated Substances (29 CER 1	1910 1001-1050)		

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes
	Fire Hazard - Yes
	Pressure Hazard - No
	Reactivity Hazard - No
SARA 302 Extremely hazardous substance	

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
TOLUENE	108-88-3	10 to <20	
XYLENE	1330-20-7	1 to <5	
1-METHYL-2-PYRROLIDONE	872-50-4	0.1 to <1	
ETHYLBENZENE	100-41-4	0.1 to <1	

Other federal regulations

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

ETHYLBENZENE (CAS 100-41-4) TOLUENE (CAS 108-88-3) XYLENE (CAS 1330-20-7)

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

N-BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6)

Safe Drinking Water Act Not regulated.

(SDWA)

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

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))		
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		
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		
ACETONE (CAS 67-64-1)	Low priority	
METHYL ETHYL KETONE (CAS 78-93-3)	Low priority	

US state regulations

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

unional Mississing (04 CED 4040 40(a))

1-METHYL-2-PYRROLIDONE (CAS 872-50-4) ACETONE (CAS 67-64-1) Butyl benzyl phthalate (CAS 85-68-7) CARBON BLACK (CAS 1333-86-4) ETHYLBENZENE (CAS 100-41-4) METHYL ETHYL KETONE (CAS 78-93-3) N-BUTANE (CAS 106-97-8) TITANIUM DIOXIDE (CAS 13463-67-7) TOLUENE (CAS 108-88-3) XYLENE (CAS 1330-20-7)

- Enforcement Administration (DEA) list 4.9

US. Massachusetts RTK - Substance List

1-METHYL-2-PYRROLIDONE (CAS 872-50-4) ACETONE (CAS 67-64-1) Butyl benzyl phthalate (CAS 85-68-7) CARBON BLACK (CAS 1333-86-4) ETHYLBENZENE (CAS 100-41-4) METHYL ETHYL KETONE (CAS 78-93-3) N-BUTANE (CAS 106-97-8) PROPANE (CAS 106-97-8) PROPANE (CAS 74-98-6) TITANIUM DIOXIDE (CAS 13463-67-7) TOLUENE (CAS 108-88-3) XYLENE (CAS 1330-20-7)

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

1-METHYL-2-PYRROLIDONE (CAS 872-50-4) ACETONE (CAS 67-64-1) Butyl benzyl phthalate (CAS 85-68-7) CARBON BLACK (CAS 1333-86-4) ETHYLBENZENE (CAS 100-41-4) METHYL ETHYL KETONE (CAS 78-93-3) N-BUTANE (CAS 106-97-8) PROPANE (CAS 106-97-8) PROPANE (CAS 74-98-6) TITANIUM DIOXIDE (CAS 13463-67-7) TOLUENE (CAS 108-88-3) XYLENE (CAS 1330-20-7)

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

1-METHYL-2-PYRROLIDONE (CAS 872-50-4) ACETONE (CAS 67-64-1) Butyl benzyl phthalate (CAS 85-68-7) CARBON BLACK (CAS 1333-86-4) ETHYLBENZENE (CAS 100-41-4) METHYL ETHYL KETONE (CAS 78-93-3) N-BUTANE (CAS 106-97-8) PROPANE (CAS 106-97-8) PROPANE (CAS 74-98-6) TITANIUM DIOXIDE (CAS 13463-67-7) TOLUENE (CAS 108-88-3) XYLENE (CAS 1330-20-7)

US. Rhode Island RTK

1-METHYL-2-PYRROLIDONE (CAS 872-50-4) ACETONE (CAS 67-64-1) Butyl benzyl phthalate (CAS 85-68-7) ETHYLBENZENE (CAS 100-41-4) METHYL ETHYL KETONE (CAS 78-93-3) N-BUTANE (CAS 106-97-8) **PROPANE (CAS 74-98-6)** TOLUENE (CAS 108-88-3) XYLENE (CAS 1330-20-7)

US. California Proposition 65

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

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

ETHYL ETHYLE SILICA, TITANIU US - Califor 1-METH Butyl be DIBUTY ETHYL TOLUE US - Califor DIBUTY TOLUE	ALCOHOL (CAS 64-17-5) BENZENE (CAS 100-41-4) CRYSTALLINE QUARTZ (CAS 14808-60-7) IM DIOXIDE (CAS 13463-67-7) nia Proposition 65 - CRT: Listed date/Devel YL-2-PYRROLIDONE (CAS 872-50-4) nzyl phthalate (CAS 85-68-7) L PHTHALATE (CAS 84-74-2) ALCOHOL (CAS 64-17-5) NE (CAS 108-88-3) nia Proposition 65 - CRT: Listed date/Femal L PHTHALATE (CAS 84-74-2) NE (CAS 108-88-3)	Listed: September 2, 2011 opmental toxin Listed: June 15, 2001 Listed: December 2, 2005 Listed: December 2, 2005 Listed: October 1, 1987 Listed: January 1, 1991 le reproductive toxin Listed: December 2, 2005 Listed: August 7, 2009	
US - Califor	nia Proposition 65 - CRT: Listed date/Male r	reproductive toxin	
DIBUTY	L PHTHALATE (CAS 84-74-2)	Listed: December 2, 2005	
International Invento	ories		
Country(s) or re	gion Inventory name	On inventory (yes/no)*	
Australia	Australian Inventory of Chemica	al Substances (AICS) No	
Canada	Domestic Substances List (DSL	.) No	
Canada	Non-Domestic Substances List	(NDSL) No	
China	Inventory of Existing Chemical S	Inventory of Existing Chemical Substances in China (IECSC) No.	
Europe	European Inventory of Existing Substances (EINECS)	European Inventory of Existing Commercial Chemical No Substances (EINECS)	
Europe	European List of Notified Chem	ical Substances (ELINCS) No	
Japan	Inventory of Existing and New C	Chemical Substances (ENCS) No	
Korea	Existing Chemicals List (ECL)	No	
New Zealand	New Zealand Inventory	No	
Philippines	Philippine Inventory of Chemica (PICCS)	Is and Chemical Substances No	

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No *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	08-01-2019
Revision date	06-17-2021
Version #	03
HMIS® ratings	Health: 2* Flammability: 3 Physical hazard: 0

Disclaimer

Health: 2 Flammability: 3 Instability: 0

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