



1. Identification

Product identifier	#1738 SM ARNOLD FLAGST	ONE #65-612
Other means of identification		
Product Code	06094 711343 604	
Recommended use	Not available.	
Manufacturer/Importer/Supplier/	Distributor information	
Company name Address	Quest Industrial Products, LLC N92 W14701 Anthony Avenue Menomonee Falls, WI 53051 United States	
Telephone	General Assistance	(262) 255-9500
Website	quest-ip.com	
E-mail	info@quest-ip.com	
Emergency phone number	Chemtrec Phone	800-424-9300
2. Hazard(s) identification		
Physical hazards	Flammable aerosols	Category 2
	0	

5		0,
	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.	

Label elements



Signal word Hazard statement

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	82.29% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 82.29% 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
TITANIUM DIOXIDE		13463-67-7	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
Other components below reportable	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.
5 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 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		
		100 ppm		
JS. OSHA Table Z-2 (29 CFR 1910.1	•			
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		
JS. NIOSH: Pocket Guide to Chemi				
Components	Туре	Value		
ACETONE (CAS 67-64-1)	TWA	590 mg/m3		
		250 ppm		
CARBON BLACK (CAS	TWA	0.1 mg/m3		
1333-86-4)		5. i ing/ino		
ETHYLBENZENE (CAS 100-41-4)	STEL	545 mg/m3		
,		125 ppm		
	TWA	435 mg/m3		
		100 ppm		
	OTEL	885 mg/m3		
	STEL			
METHYL ETHYL KETONE (CAS 78-93-3)		300 ppm		
	TWA	590 mg/m3		
		590 mg/m3 200 ppm		
		590 mg/m3		

US. NIOSH: Pocket Guide t Components			Va	lue
-	Туре		Vd	
PROPANE (CAS 74-98-6)	TWA			00 mg/m3
				00 ppm
TOLUENE (CAS 108-88-3)	STEL) mg/m3
) ppm
	TWA			5 mg/m3
			100) ppm
US. Workplace Environmer				
Components	Туре		Va	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
ological limit values				
ACGIH Biological Exposure	e Indices Value	Determinant	Specimen	Sampling Time
1-METHYL-2-PYRROLIDO	100 mg/l	5-Hydroxy-N-m	Urine	*
NE (CAS 872-50-4)	roo mg/r	ethyl-2-pyrrolid one	Unite	
ACETONE (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
	0.15 g/g	Sum of	Creatinine in	*
100-41-4)		mandelic acid and phenylglyoxylic	urine	
		acid		
METHYL ETHYL KETONE 2 (CAS 78-93-3)	2 mg/l	MEK	Urine	*
TOLUENE (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
,	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*
XYLENE (CAS 1330-20-7)	•	Methylhippuric acids	Creatinine in urine	*
* - For sampling details, plea	se see the source docu	iment.		
posure guidelines				
US - California OELs: Skin	designation			
1-METHYL-2-PYRROLI		Can be	absorbed throug	ah the skin
PROPYLENE GLYCOL (CAS 108-65-6)			absorbed through	
TOLUENE (CAS 108-88			absorbed throug	gh the skin.
US - Minnesota Haz Subs:				
TOLUENE (CAS 108-88 US WEEL Guides: Skin des	-	Skin de	esignation applie	S.
1-METHYL-2-PYRROLI	•	Conho	abaarbad throu	ah tha akin
			absorbed throug	-
propriate engineering ntrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.			
		otoctivo oquinmo	nt	
lividual protection measures Eye/face protection	s, such as personal pr Wear safety glasses			
	Wear safety glasses Wear appropriate ch	s with side shields (or goggles).	oves can be recommended by the glove
Eye/face protection Skin protection	Wear safety glasses	s with side shields (nemical resistant gl	or goggles). oves. Suitable gl	oves can be recommended by the glove

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

•	-
Appearance	
Physical state	Liquid.
Form	Aerosol. Liquefied gas.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
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	2279.19 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	6.09 lbs/gal
Explosive properties	Not explosive.
Flammability class	Flammable IA estimated
Heat of combustion (NFPA 30B)	30.23 kJ/g estimated
Oxidizing properties	Not oxidizing.
Percent volatile	91.21
Specific gravity	0.73
VOC	4.88 lbs/gal Regulatory 585.12 g/l Regulatory 2.95 lbs/gal Material 353.88 g/l Material

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)	
Acute		
Dermal		
LD50	Rabbit	17800 mg/kg
Oral		
LD50	Rat	3500 mg/kg
METHYL ETHYL KETONE (CA	NS 78-93-3)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 8000 mg/kg
Inhalation		
LC50	Mouse	11000 ppm, 45 Minutes
	Rat	11700 ppm, 4 Hours
Oral		
LD50	Mouse	670 mg/kg
	Rat	2300 - 3500 mg/kg
N-BUTANE (CAS 106-97-8)		
Acute		
Inhalation		000 // 011
LC50	Mouse	680 mg/l, 2 Hours
	Rat	658 mg/l, 4 Hours
PROPANE (CAS 74-98-6)		
Acute		
Inhalation	Rat	> 1442 947 mg/L 15 Minutos
	Rat	> 1442.847 mg/l, 15 Minutes
TOLUENE (CAS 108-88-3)		
<u>Acute</u> Dermal		
LD50	Rabbit	12124 mg/kg
2000	(dobit	14.1 ml/kg
Inholotion		14. T 111/Kg
Inhalation LC50	Mouse	5320 ppm, 8 Hours
2000	Mouse	
	Det	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)		
Acute		
Dermal		> 40 e//e
LD50	Rabbit	> 43 g/kg
Inhalation	Maura	
LC50	Mouse	3907 mg/l, 6 Hours
. .	Rat	6350 mg/l, 4 Hours
Oral	Maura	
LD50	Mouse	1590 mg/kg

Components	Species	Test Results
	Rat	3523 - 8600 mg/kg
* Estimates for product may I	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	ted 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	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may b harmful. Prolonged exposure 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-	-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 (CAS	5 100-41-4)		
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 Aquatic	NE (CAS 78-93-3)	
Crustacea	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 108-8	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	bility No data is	s available on the degradability of this produc	pt.
accumulative potentia	al		
Partition coefficient	•	•	
1-METHYL-2-PYRRO	LIDONE	-0.54	

-0.24

4.91

3.15

0.29

2.89

2.36

2.73

3.12 - 3.2

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

ACETONE

N-BUTANE

PROPANE

TOLUENE

Other adverse effects

XYLENE

Mobility in soil

Butyl benzyl phthalate

METHYL ETHYL KETONE

ETHYLBENZENE

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.

No data available.

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.

S 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 (CA	AS 100-41-4)	Listed.	
METHYL ETHYL KE	ГONE (CAS 78-93-3)	Listed.	
N-BUTANE (CAS 106	6-97-8)	Listed.	
PROPANE (CAS 74-9	98-6)	Listed.	
TOLUENE (CAS 108	-88-3)	Listed.	
XYLENE (CAS 1330-	20-7)	Listed.	
SARA 304 Emergency re	lease notification		
Not regulated.			
OSHA Specifically Regu	lated Substances (29 CFR 1	1910.1001-1050)	
Not regulated			

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	

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 a	nd 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)

a Enforcement Administration (DEA) list 4.9.0

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 ALCOH ETHYLBENZE SILICA, CRYS TITANIUM DIC US - California Pro 1-METHYL-2-F Butyl benzyl ph DIBUTYL PHT ETHYL ALCOH TOLUENE (CA US - California Pro DIBUTYL PHT TOLUENE (CA	pposition 65 - CRT: Listed date/Fem HALATE (CAS 84-74-2)	Listed: September 2, 2011 elopmental toxin Listed: June 15, 2001 Listed: December 2, 2005 Listed: December 2, 2005 Listed: October 1, 1987 Listed: January 1, 1991 ale reproductive toxin Listed: December 2, 2005 Listed: August 7, 2009	
	HALATE (CAS 84-74-2)	Listed: December 2, 2005	
International Inventories		,_,,_,,_,	
Country(s) or region	Inventory name		On inventory (yes/no)*
Australia	-	Australian Inventory of Chemical Substances (AICS)	
Canada	Domestic Substances List (DS	Domestic Substances List (DSL)	
Canada	Non-Domestic Substances Lis	Non-Domestic Substances List (NDSL)	
China	Inventory of Existing Chemica	Inventory of Existing Chemical Substances in China (IECSC)	
Europe	European Inventory of Existing Substances (EINECS)	European Inventory of Existing Commercial Chemical Substances (EINECS)	
Europe	European List of Notified Cher	European List of Notified Chemical Substances (ELINCS)	
Japan	Inventory of Existing and New	Inventory of Existing and New Chemical Substances (ENCS)	
Korea	Existing Chemicals List (ECL)	Existing Chemicals List (ECL)	
New Zealand	New Zealand Inventory	New Zealand Inventory	
Philippines	Philippine Inventory of Chemic (PICCS)	cals 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	04-13-2015	
Revision date	04-29-2019	
Version #	04	
HMIS® ratings	Health: 2* Flammability: 3 Physical hazard: 0	

NFPA ratings	Health: 2 Flammability: 3 Instability: 0
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Revision information	This document has undergone significant changes and should be reviewed in its entirety.