

SAFETY DATA SHEET

1. Identification

Product identifier EPA Method 625 Base Neutrals Mixture - 3

Other means of identification

Item M-EPA625BN3X3

Recommended use For Laboratory Use Only

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Chem Service, Inc.
Address 660 Tower Lane
 West Chester, PA 19380
 United States

Telephone Toll Free 800-452-9994
 Direct 610-692-3026

Website www.chemservice.com

E-mail info@chemservice.com

Emergency phone number Chemtrec US 800-424-9300
 Chemtrec outside US +1 703-527-3887

2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Acute toxicity, oral	Category 4
Acute toxicity, dermal	Category 4
Acute toxicity, inhalation	Category 1
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 1B
Specific target organ toxicity, single exposure	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 2
Hazardous to the aquatic environment, long-term hazard	Category 2

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Fatal if inhaled. May cause drowsiness or dizziness. May cause cancer. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Toxic 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. Do not breathe 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. Wear respiratory protection.

Response

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. 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. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

99.56% of the mixture consists of component(s) of unknown acute inhalation toxicity. 99.56% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.56% 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	%
Methylene chloride	Dichloromethane	75-09-2	99.56
1,2,4-Trichlorobenzene		120-82-1	0.04
2-Chloronaphthalene		91-58-7	0.04
Azobenzene		103-33-3	0.04
Butyl benzyl phthalate		85-68-7	0.04
Fluoranthene		206-44-0	0.04
Hexachlorocyclopentadiene		77-47-4	0.04
Hexachloroethane		67-72-1	0.04
Isophorone		78-59-1	0.04
N-Nitrosodi-n-propylamine		621-64-7	0.04
N-Nitrosodiphenylamine		86-30-6	0.04
Phenanthrene		85-01-8	0.04

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

Skin contact

Remove contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention if you feel unwell. 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

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

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 warm. 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

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapors or spray mist. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	<p>This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.</p>
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors or spray mist. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. 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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Methylene chloride (CAS 75-09-2)	STEL	125 ppm
	TWA	25 ppm

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

Components	Type	Value
Hexachloroethane (CAS 67-72-1)	PEL	10 mg/m ³
		1 ppm
Isophorone (CAS 78-59-1)	PEL	140 mg/m ³

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

Components	Type	Value
		25 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
1,2,4-Trichlorobenzene (CAS 120-82-1)	Ceiling	5 ppm
Hexachlorocyclopentadiene (CAS 77-47-4)	TWA	0.01 ppm
Hexachloroethane (CAS 67-72-1)	TWA	1 ppm
Isophorone (CAS 78-59-1)	Ceiling	5 ppm
Methylene chloride (CAS 75-09-2)	TWA	50 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
1,2,4-Trichlorobenzene (CAS 120-82-1)	Ceiling	40 mg/m3
Hexachlorocyclopentadiene (CAS 77-47-4)	TWA	5 ppm 0.1 mg/m3
Hexachloroethane (CAS 67-72-1)	TWA	0.01 ppm 10 mg/m3
Isophorone (CAS 78-59-1)	TWA	1 ppm 23 mg/m3 4 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Methylene chloride (CAS 75-09-2)	0.3 mg/l	Dichloromethane	Urine	*

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

Exposure guidelines

US - California OELs: Skin designation

Hexachloroethane (CAS 67-72-1) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Hexachloroethane (CAS 67-72-1) Skin designation applies.

US - Tennessee OELs: Skin designation

Hexachloroethane (CAS 67-72-1) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Hexachloroethane (CAS 67-72-1) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Hexachloroethane (CAS 67-72-1) Can be absorbed through the skin.

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

Hexachloroethane (CAS 67-72-1) Can be absorbed through the skin.

Appropriate engineering controls

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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

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

Respiratory protection

Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Observe any medical surveillance requirements. Keep away from food and drink. 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	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	-139 °F (-95 °C) estimated
Initial boiling point and boiling range	103.55 °F (39.75 °C) estimated
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	15.5 % estimated
Flammability limit - upper (%)	66.4 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.

Vapor pressure	580 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	1033 °F (556.11 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.

Other information

Density	1.32519 g/cm3 estimated
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	99.64 % estimated
Specific gravity	1.33 estimated
VOC	99.68 % estimated

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	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Fatal if inhaled. May cause damage to organs by inhalation. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact Harmful in contact with skin. Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed.

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 Fatal if inhaled. Harmful in contact with skin. Harmful if swallowed.

Components	Species	Test Results
1,2,4-Trichlorobenzene (CAS 120-82-1)		
Acute		
Oral		
LD50	Rat	756 mg/kg
2-Chloronaphthalene (CAS 91-58-7)		
Acute		
Oral		
LD50	Rat	2078 mg/kg
Butyl benzyl phthalate (CAS 85-68-7)		
Acute		
Oral		
LD50	Rat	2330 mg/kg
Fluoranthene (CAS 206-44-0)		
Acute		
Dermal		
LD50	Rabbit	3180 mg/kg
Hexachlorocyclopentadiene (CAS 77-47-4)		
Acute		
Inhalation		
LC50	Rat	0.0181 mg/l, 4 Hours
Hexachloroethane (CAS 67-72-1)		
Acute		
Oral		
LD50	Rat	4460 mg/kg
Isophorone (CAS 78-59-1)		
Acute		
Dermal		
LD50	Rabbit	1200 mg/kg, 24 Hours
Inhalation		
LC50	Rat	7 mg/l, 4 Hours
Oral		
LD50	Rat	1000 mg/kg

Components	Species	Test Results
Methylene chloride (CAS 75-09-2)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, Days
Oral		
LD50	Rat	1600 mg/kg
N-Nitrosodi-n-propylamine (CAS 621-64-7)		
Acute		
Oral		
LD50	Rat	480 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected 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	May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Azobenzene (CAS 103-33-3)	3 Not classifiable as to carcinogenicity to humans.
Butyl benzyl phthalate (CAS 85-68-7)	3 Not classifiable as to carcinogenicity to humans.
Fluoranthene (CAS 206-44-0)	3 Not classifiable as to carcinogenicity to humans.
Hexachloroethane (CAS 67-72-1)	2B Possibly carcinogenic to humans.
Methylene chloride (CAS 75-09-2)	2A Probably carcinogenic to humans.
N-Nitrosodi-n-propylamine (CAS 621-64-7)	2B Possibly carcinogenic to humans.
N-Nitrosodiphenylamine (CAS 86-30-6)	3 Not classifiable as to carcinogenicity to humans.
Phenanthrene (CAS 85-01-8)	3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Methylene chloride (CAS 75-09-2)	Cancer
----------------------------------	--------

US. National Toxicology Program (NTP) Report on Carcinogens

Hexachloroethane (CAS 67-72-1)	Reasonably Anticipated to be a Human Carcinogen.
Methylene chloride (CAS 75-09-2)	Reasonably Anticipated to be a Human Carcinogen.
N-Nitrosodi-n-propylamine (CAS 621-64-7)	Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Causes damage to organs. 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 be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components	Species	Test Results
1,2,4-Trichlorobenzene (CAS 120-82-1)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna)
		3.1 - 3.69 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
		1.35 - 1.73 mg/l, 96 hours

Components	Species	Test Results
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
Fluoranthene (CAS 206-44-0)		
Aquatic		
Fish	LC50	Fathead minnow (Pimephales promelas) 0.0054 - 0.0085 mg/l, 96 hours
Hexachlorocyclopentadiene (CAS 77-47-4)		
Aquatic		
Fish	LC50	Fathead minnow (Pimephales promelas) 0.007 mg/l, 96 hours
Hexachloroethane (CAS 67-72-1)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 1.6 - 2.1 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus) 0.73 - 1.28 mg/l, 96 hours
Isophorone (CAS 78-59-1)		
Aquatic		
Fish	LC50	Fathead minnow (Pimephales promelas) 132 - 159 mg/l, 96 hours
Methylene chloride (CAS 75-09-2)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 1250 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 140.8 - 277.8 mg/l, 96 hours
N-Nitrosodiphenylamine (CAS 86-30-6)		
Aquatic		
Fish	LC50	Bluegill (Lepomis macrochirus) 4.8 - 7.6 mg/l, 96 hours
Phenanthrene (CAS 85-01-8)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 0.185 - 0.243 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus) 0.438 - 0.523 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

1,2,4-Trichlorobenzene	4.02
2-Chloronaphthalene	3.9
Azobenzene	3.82
Butyl benzyl phthalate	4.91
Fluoranthene	5.16
Hexachlorocyclopentadiene	3.99
Hexachloroethane	4.14
Isophorone	1.7
Methylene chloride	1.25
N-Nitrosodi-n-propylamine	1.36
N-Nitrosodiphenylamine	3.13
Phenanthrene	4.57

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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.

14. Transport information

DOT	
UN number	UN1593
UN proper shipping name	Dichloromethane, solution (Methylene chloride RQ = 1004 LBS), MARINE POLLUTANT (1,2,4-Trichlorobenzene, Butyl benzyl phthalate)
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Label(s)	6.1
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, IP8, N36, T7, TP2
Packaging exceptions	153
Packaging non bulk	203
Packaging bulk	241
IATA	
UN number	UN1593
UN proper shipping name	Dichloromethane solution (Methylene chloride)
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Packing group	III
Environmental hazards	Yes
ERG Code	6L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1593
UN proper shipping name	DICHLOROMETHANE SOLUTION (Methylene chloride), MARINE POLLUTANT (1,2,4-Trichlorobenzene)
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-A
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
1,2,4-Trichlorobenzene	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

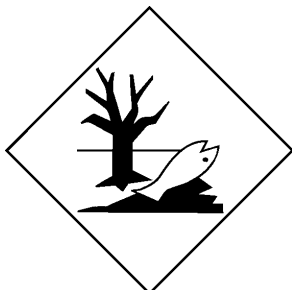
DOT



IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

15. Regulatory information

US federal regulations

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

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

Not regulated.

TSCA Chemical Action Plans, Chemicals of Concern

Butyl benzyl phthalate (CAS 85-68-7)

Phthalates Action Plan

CERCLA Hazardous Substance List (40 CFR 302.4)

1,2,4-Trichlorobenzene (CAS 120-82-1)	Listed.
2-Chloronaphthalene (CAS 91-58-7)	Listed.
Azobenzene (CAS 103-33-3)	Listed.
Butyl benzyl phthalate (CAS 85-68-7)	Listed.
Fluoranthene (CAS 206-44-0)	Listed.
Hexachlorocyclopentadiene (CAS 77-47-4)	Listed.
Hexachloroethane (CAS 67-72-1)	Listed.
Isophorone (CAS 78-59-1)	Listed.
Methylene chloride (CAS 75-09-2)	Listed.
N-Nitrosodi-n-propylamine (CAS 621-64-7)	Listed.
N-Nitrosodiphenylamine (CAS 86-30-6)	Listed.
Phenanthrene (CAS 85-01-8)	Listed.

SARA 304 Emergency release notification

Hexachlorocyclopentadiene (CAS 77-47-4)	10 LBS
---	--------

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Methylene chloride (CAS 75-09-2)	Cancer
	Heart
	Central nervous system
	Liver
	Skin irritation
	Eye irritation

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

- Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
---------------	------------	------------------------------	--------------------------------------	---	---

Hexachlorocyclopentadiene	77-47-4	10	100		
---------------------------	---------	----	-----	--	--

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Methylene chloride	75-09-2	99.56

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

- 1,2,4-Trichlorobenzene (CAS 120-82-1)
- Azobenzene (CAS 103-33-3)
- Fluoranthene (CAS 206-44-0)
- Hexachlorocyclopentadiene (CAS 77-47-4)
- Hexachloroethane (CAS 67-72-1)
- Isophorone (CAS 78-59-1)
- Methylene chloride (CAS 75-09-2)
- N-Nitrosodiphenylamine (CAS 86-30-6)
- Phenanthrene (CAS 85-01-8)

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

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

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

Isophorone (CAS 78-59-1)	Low priority
--------------------------	--------------

US state regulations 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

Azobenzene (CAS 103-33-3)	Listed: January 1, 1990
Hexachloroethane (CAS 67-72-1)	Listed: July 1, 1990
Methylene chloride (CAS 75-09-2)	Listed: April 1, 1988
N-Nitrosodi-n-propylamine (CAS 621-64-7)	Listed: January 1, 1988
N-Nitrosodiphenylamine (CAS 86-30-6)	Listed: April 1, 1988

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

Butyl benzyl phthalate (CAS 85-68-7)	Listed: December 2, 2005
--------------------------------------	--------------------------

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

- 1,2,4-Trichlorobenzene (CAS 120-82-1)
- 2-Chloronaphthalene (CAS 91-58-7)
- Azobenzene (CAS 103-33-3)
- Butyl benzyl phthalate (CAS 85-68-7)
- Fluoranthene (CAS 206-44-0)
- Hexachloroethane (CAS 67-72-1)

Isophorone (CAS 78-59-1)
Methylene chloride (CAS 75-09-2)
N-Nitrosodi-n-propylamine (CAS 621-64-7)
N-Nitrosodiphenylamine (CAS 86-30-6)
Phenanthrene (CAS 85-01-8)

International Inventories

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

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

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

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

Issue date 01-24-2018
Revision date 01-25-2018
Version # 02
NFPA ratings Health: 4
Flammability: 0
Instability: 0

Disclaimer

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.

Copyright © 2000-2014 Chem Service, Inc. All rights reserved except that this SDS may be printed for the use of a customer or prospective customer of Chem Service, Inc provided the entire SDS is printed. The SDS may not be placed in any database or otherwise stored or distributed in electronic or any other form.

This product is furnished FOR LABORATORY USE ONLY.