SAFETY DATA SHEET



1. Identification

Product identifier Semi-Volatiles Supplement Mixture - 8270B

Other means of identification

M-SV82701XX4

Recommended use For Laboratory Use Only

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Chem Service, Inc. 660 Tower Lane **Address**

West Chester, PA 19380

United States

Toll Free 800-452-9994 **Telephone**

Direct 610-692-3026

Website www.chemservice.com E-mail info@chemservice.com

Chemtrec US 800-424-9300 **Emergency phone number**

Chemtrec outside US +1 703-527-3887

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

> Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Sensitization, skin Category 1 Carcinogenicity Category 1A Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment,

long-term hazard

Not classified.

Label elements

OSHA defined hazards



Signal word Danger

Hazard statement Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious

eye irritation. May cause cancer. May cause damage to organs through prolonged or repeated

Category 3

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. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye

protection/face protection.

Response If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. 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. Specific treatment (see this label). Rinse mouth. If skin irritation or rash occurs: Get medical

advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated

clothing and wash before reuse.

Storage Store locked up.

Material name: Semi-Volatiles Supplement Mixture - 8270B 403 Version #: 01 Issue date: 10-21-2014

Disposal

Hazard(s) not otherwise classified (HNOC)

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

None known.

Supplemental information

0.4% of the mixture consists of component(s) of unknown acute oral toxicity. 99.3% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.2% 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; METHYLENE DICHLORIDE	75-09-2	>98
1,2,4,5-Tetrachlorobenzene		95-94-3	0.1
1-Chloronaphthalene		90-13-1	0.1
2-Picoline		109-06-8	0.1
3-Methylcholanthrene		56-49-5	0.1
4-Aminobiphenyl		92-67-1	0.1
7,12-Dimethylbenz(a)anthracene		57-97-6	0.1
Acetophenone		98-86-2	0.1
a-Naphthylamine		134-32-7	0.1
b-Naphthylamine		91-59-8	0.1
Dibenz(a,j)acridine		224-42-0	0.1
Diphenylamine		122-39-4	0.1
N-Nitrosodi-n-butylamine		924-16-3	0.1
N-Nitrosopiperidine		100-75-4	0.1
p-Acetophenetidide		62-44-2	0.1
p-Dimethylaminoazobenzene		60-11-7	0.1
Pentachlorobenzene		608-93-5	0.1
Pentachloronitrobenzene		82-68-8	0.1
Propyzamide		23950-58-5	0.1

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

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. Take off

contaminated clothing and wash 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 SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Most important Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause an allergic skin reaction. Dermatitis. Rash. May cause redness and pain. Prolonged

exposure may cause chronic effects.

Indication of immediate Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware

of the material(s) involved, and take precautions to protect themselves. Wash contaminated

clothing before reuse.

5. Fire-fighting measures

symptoms/effects, acute and

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

media

delayed

treatment needed

During fire, gases hazardous to health may be formed.

Material name: Semi-Volatiles Supplement Mixture - 8270B

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 methodsUse 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. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. 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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. 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 mist or vapor. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated	Substances (29 CFR 1910.100		
Components	Type	Value	
Methylene chloride (CAS 75-09-2)	STEL	125 ppm	
	TWA	25 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
Acetophenone (CAS 98-86-2)	TWA	10 ppm	
Diphenylamine (CAS 122-39-4)	TWA	10 mg/m3	
Methylene chloride (CAS 75-09-2)	TWA	50 ppm	
Pentachloronitrobenzene (CAS 82-68-8)	TWA	0.5 mg/m3	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Diphenylamine (CAS 122-39-4)	TWA	10 mg/m3	
US. Workplace Environmental Ex	posure Level (WEEL) Guides		
Components	Туре	Value	
2-Picoline (CAS 109-06-8)	STEL	19 mg/m3	
		5 ppm	
	TWA	7.6 mg/m3	
		2 ppm	
Acetophenone (CAS 98-86-2)	TWA	50 mg/m3	

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Components Value

10 ppm

Biological limit values

ACGIH Bio	logical	Exposure	Indices
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Components	Value	Determinant	Specimen	Sampling Time	
Methylene chloride (CAS 75-09-2)	0.3 mg/l	Dichlorometha ne	Urine	*	

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

Exposure guidelines

US - California OELs: Skin designation

4-Aminobiphenyl (CAS 92-67-1) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-Picoline (CAS 109-06-8) Skin designation applies. 4-Aminobiphenyl (CAS 92-67-1) Skin designation applies.

US ACGIH Threshold Limit Values: Skin designation

4-Aminobiphenyl (CAS 92-67-1) Can be absorbed through the skin.

US WEEL Guides: Skin designation

2-Picoline (CAS 109-06-8) 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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene

considerations

When using, do not eat, drink or 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. Contaminated work

clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Liquid. Physical state **Form** Liquid Color Not available.

Odor Not available. Odor threshold Not available. Not available. pН

-139 °F (-95 °C) estimated Melting point/freezing point Initial boiling point and boiling 103.55 °F (39.75 °C) estimated

range

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

15.5 % estimated

Flammability limit - upper

66.4 % estimated

(%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

579.97 hPa estimated Vapor pressure

Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water)

1033 °F (556.11 °C) estimated **Auto-ignition temperature**

Decomposition temperature Not available. Not available. **Viscosity**

Other information

Density 1.324671 g/cm3 estimated

Percent volatile 98.5 % estimated Specific gravity 1.32 estimated VOC (Weight %) 98.5 % 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. Hazardous polymerization does not occur. Possibility of hazardous

reactions

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Harmful if swallowed. Ingestion

Prolonged inhalation may be harmful. May cause damage to organs by inhalation. Inhalation

Causes skin irritation. May cause an allergic skin reaction. Skin contact

Causes serious eye irritation. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an

allergic skin reaction. Skin irritation. May cause redness and pain. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Harmful if swallowed. May cause an allergic skin reaction.

Components **Species Test Results**

1-Chloronaphthalene (CAS 90-13-1)

Acute Oral

LD50 Guinea pig 2000 mg/kg

> Mouse 1091 mg/kg Rat 1540 mg/kg

2-Picoline (CAS 109-06-8)

Acute

Dermal

LD50 Rabbit 410 mg/kg

Inhalation

LC50 Rat 4000 ppm, 4 Hours

Oral

LD50 Guinea pig 900 mg/kg

> Mouse 674 mg/kg Rat 790 mg/kg

Other

LD50 Rat 200 mg/kg

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Components	Species	Test Results
4-Aminobiphenyl (CAS 92-67-1)		
Acute		
Oral		
LD50	Mouse	205 mg/kg
	Rabbit	690 mg/kg
	Rat	500 mg/kg
Acetophenone (CAS 98-86-2)		
Acute		
Dermal		
LD50	Guinea pig	> 20600 mg/kg
		> 20 ml/kg
	Rabbit	1760 mg/kg
	Rat	3300 mg/kg
Oral		
LD50	Mouse	740 mg/kg
	Rat	0.81 g/kg
Other		
LD100	Mouse	1600 mg/kg
LD50	Mouse	200 mg/kg
LDL0	Mouse	330 mg/kg
a-Naphthylamine (CAS 134-32-7)		
Acute		
Dermal		
LD50	Rat	447 mg/kg
Inhalation		
LC50	Rat	> 0.056 mg/l, 4 Hours
Oral		3,
LD50	Rat	680 mg/kg
Other		3 3
LD50	Mouse	96 mg/kg
	Rat	620 mg/kg
Diphenylamine (CAS 122-39-4)		5_5 mg/mg
Acute		
Oral		
LD50	Guinea pig	300 mg/kg
	Mouse	1750 mg/kg
	Rat	2 g/kg
Methylene chloride (CAS 75-09-2)	rat	2 g/kg
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation		
LC50	Guinea pig	11600 ppm, 6 Hours
	- m	40.2 mg/l, 6 Hours
	Mouse	14400 ppm, 7 Hours
	MOUSE	
		51.5 mg/l, 2 Hours
		49.1 mg/l, 6 Hours
		49 mg/l, 7 Hours
	Rat	2000 mg/l, 15 Minutes
		88 mg/l, 900 Days
		79 mg/l, 2 Hours
		52 mg/l, 6 Hours

Components	Species	Test Results
LD50	Mouse	16000 ppm, 7 Hours
Oral		
LD50	Rat	1600 mg/kg
Other		
LD50	Mouse	437 mg/kg
N-Nitrosodi-n-butylamine (CAS	S 924-16-3)	
Acute		
Oral		
LD50	Hamster	2150 mg/kg
	Rat	1200 mg/kg
Other		
LD50	Hamster	561 mg/kg
	Rat	1200 mg/kg
N-Nitrosopiperidine (CAS 100-	75-4)	
Acute	,	
Oral		
LD50	Rat	200 mg/kg
Other		
LD50	Hamster	110 mg/kg
	Rat	60 mg/kg
p-Acetophenetidide (CAS 62-4	4-2)	
Acute		
Oral		
LD50	Guinea pig	2.6 g/kg
	Rat	1.65 g/kg
Pentachlorobenzene (CAS 608	3-93-5)	
Acute	,	
Oral		
LD50	Mouse	1175 mg/kg
	Rat	940 mg/kg
Pentachloronitrobenzene (CAS	8 82-68-8)	
Acute		
Oral		
LD50	Rabbit	800 mg/kg
	Rat	265 mg/kg
Propyzamide (CAS 23950-58-	5)	
Acute		
Oral		
LD50	Rat	5600 mg/kg
	ay be based on additional component dat	ta not shown.
Skin corrosion/irritation	Causes skin irritation.	

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicityNo 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

4-Aminobiphenyl (CAS 92-67-1) 1 Carcinogenic to humans.

a-Naphthylamine (CAS 134-32-7) 3 Not classifiable as to carcinogenicity to humans.

b-Naphthylamine (CAS 91-59-8) 1 Carcinogenic to humans.

Dibenz(a,j)acridine (CAS 224-42-0) 2A Probably carcinogenic to humans.

Methylene chloride (CAS 75-09-2)

N-Nitrosodi-n-butylamine (CAS 924-16-3)

N-Nitrosopiperidine (CAS 100-75-4)

2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans.

p-Acetophenetidide (CAS 62-44-2) 1 Carcinogenic to humans.

p-Dimethylaminoazobenzene (CAS 60-11-7) 2B Possibly carcinogenic to humans.

Pentachloronitrobenzene (CAS 82-68-8)

3 Not classifiable as to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

4-Aminobiphenyl (CAS 92-67-1) Known To Be Human Carcinogen. b-Naphthylamine (CAS 91-59-8) Known To Be Human Carcinogen.

Dibenz(a,j)acridine (CAS 224-42-0)

Methylene chloride (CAS 75-09-2)

N-Nitrosodi-n-butylamine (CAS 924-16-3)

N-Nitrosopiperidine (CAS 100-75-4)

Reasonably Anticipated to be a Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

p-Acetophenetidide (CAS 62-44-2) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

p-Dimethylaminoazobenzene (CAS 60-11-7)

Reasonably Anticipated to be a Human Carcinogen.

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

4-Aminobiphenyl (CAS 92-67-1) Cancer a-Naphthylamine (CAS 134-32-7) Cancer b-Naphthylamine (CAS 91-59-8) Cancer Methylene chloride (CAS 75-09-2) Cancer p-Dimethylaminoazobenzene (CAS 60-11-7) Cancer

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause

damage to organs through prolonged or repeated exposure.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Components Sp	ecies Test Results
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1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 0.32 mg/l, 96 hours

1-Chloronaphthalene (CAS 90-13-1)

Aquatic

Fish LC50 Sheepshead minnow (Cyprinodon 0.69 mg/l, 96 hours

variegatus)

2-Picoline (CAS 109-06-8)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 897 mg/l, 96 hours

Acetophenone (CAS 98-86-2)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 155 mg/l, 96 hours

Diphenylamine (CAS 122-39-4)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 0.27 - 0.36 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) 3.471 - 4.141 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

Pentachlorobenzene (CAS 608-93-5)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 0.18 - 0.32 mg/l, 96 hours

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

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition	n coefficient n-octan	ol / water	(log Kow)

1,2,4,5-Tetrachlorobenzene	4.6
1-Chloronaphthalene	4
2-Picoline	1.11
3-Methylcholanthrene	6.42
4-Aminobiphenyl	2.8
7,12-Dimethylbenz(a)anthracene	5.8
Acetophenone	1.58
a-Naphthylamine	2.25
Methylene chloride	1.25
N-Nitrosodi-n-butylamine	1.92
N-Nitrosopiperidine	0.36
p-Acetophenetidide	1.58
p-Dimethylaminoazobenzene	4.58
Pentachlorobenzene	5.18
Propyzamide	3.43

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 instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. 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 codeThe waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

US RCRA Hazardous Waste U List: Reference

1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)	U207
2-Picoline (CAS 109-06-8)	U191
3-Methylcholanthrene (CAS 56-49-5)	U157
7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)	U094
Acetophenone (CAS 98-86-2)	U004
a-Naphthylamine (CAS 134-32-7)	U167
b-Naphthylamine (CAS 91-59-8)	U168
Methylene chloride (CAS 75-09-2)	U080
N-Nitrosodi-n-butylamine (CAS 924-16-3)	U172
N-Nitrosopiperidine (CAS 100-75-4)	U179
p-Acetophenetidide (CAS 62-44-2)	U187
p-Dimethylaminoazobenzene (CAS 60-11-7)	U093
Pentachlorobenzene (CAS 608-93-5)	U183
Pentachloronitrobenzene (CAS 82-68-8)	U185
Propyzamide (CAS 23950-58-5)	U192

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 Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN1593

UN proper shipping name Dichloromethane, solution

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk -Label(s) 6.1 Packing group III

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

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk Packing group III
Environmental hazards No.
ERG Code 6L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed.

aircraft

Cargo aircraft only Allowed.

IMDG

UN number UN1593

UN proper shipping name DICHLOROMETHANE SOLUTION

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk - Packing group |||

Environmental hazards

Marine pollutant No. EmS F-A, S-A

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. **nsport in bulk according to** Not available.

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

the IBC Code

DOT



IATA; IMDG



15. Regulatory information

US federal regulationsThis product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

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

1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)1.0 % One-Time Export Notification only.3-Methylcholanthrene (CAS 56-49-5)1.0 % One-Time Export Notification only.p-Acetophenetidide (CAS 62-44-2)0.1 % One-Time Export Notification only.Pentachlorobenzene (CAS 608-93-5)1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

1,2,4,5-Tetrachlorobenzene (CAS 95-94-3) Listed.

1-Chloronaphthalene (CAS 90-13-1)	Listed.
2-Picoline (CAS 109-06-8)	Listed.
3-Methylcholanthrene (CAS 56-49-5)	Listed.
4-Aminobiphenyl (CAS 92-67-1)	Listed.
7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)	Listed.
Acetophenone (CAS 98-86-2)	Listed.
a-Naphthylamine (CAS 134-32-7)	Listed.
b-Naphthylamine (CAS 91-59-8)	Listed.
Methylene chloride (CAS 75-09-2)	Listed.
N-Nitrosodi-n-butylamine (CAS 924-16-3)	Listed.
N-Nitrosopiperidine (CAS 100-75-4)	Listed.
p-Acetophenetidide (CAS 62-44-2)	Listed.
p-Dimethylaminoazobenzene (CAS 60-11-7)	Listed.
Pentachlorobenzene (CAS 608-93-5)	Listed.
Pentachloronitrobenzene (CAS 82-68-8)	Listed.
Propyzamide (CAS 23950-58-5)	Listed.

SARA 304 Emergency release notification

Not regulated.

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

, , ,	,
4-Aminobiphenyl (CAS 92-67-1)	Cancer
a-Naphthylamine (CAS 134-32-7)	Cancer
b-Naphthylamine (CAS 91-59-8)	Cancer
Methylene chloride (CAS 75-09-2)	Cancer
p-Dimethylaminoazobenzene (CAS 60-11-7)	Cancer
a-Naphthylamine (CAS 134-32-7)	Skin irritation
b-Naphthylamine (CAS 91-59-8)	Acute toxicity
Methylene chloride (CAS 75-09-2)	Heart
p-Dimethylaminoazobenzene (CAS 60-11-7)	Skin
a-Naphthylamine (CAS 134-32-7)	Acute toxicity
Methylene chloride (CAS 75-09-2)	Central nervous system
p-Dimethylaminoazobenzene (CAS 60-11-7)	respiratory tract irritation
Methylene chloride (CAS 75-09-2)	Liver
	Skin irritation
	Eye irritation

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Methylene chloride	75-09-2	>98	
4-Aminobiphenyl	92-67-1	0.1	
7,12-Dimethylbenz(a)anthracene	57-97-6	0.1	
a-Naphthylamine	134-32-7	0.1	
b-Naphthylamine	91-59-8	0.1	
Dibenz(a,j)acridine	224-42-0	0.1	
N-Nitrosodi-n-butylamine	924-16-3	0.1	
N-Nitrosopiperidine	100-75-4	0.1	
p-Dimethylaminoazobenzene	60-11-7	0.1	

Other federal regulations

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

3-Methylcholanthrene (CAS 56-49-5)

4-Aminobiphenyl (CAS 92-67-1)

7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)

Acetophenone (CAS 98-86-2)

a-Naphthylamine (CAS 134-32-7)

b-Naphthylamine (CAS 91-59-8)

Dibenz(a,j)acridine (CAS 224-42-0)

Methylene chloride (CAS 75-09-2)

p-Dimethylaminoazobenzene (CAS 60-11-7)

Pentachloronitrobenzene (CAS 82-68-8)

Material name: Semi-Volatiles Supplement Mixture - 8270B

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

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. Massachusetts RTK - Substance List

1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)

2-Picoline (CAS 109-06-8)

3-Methylcholanthrene (CAS 56-49-5)

4-Aminobiphenyl (CAS 92-67-1)

7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)

Acetophenone (CAS 98-86-2)

a-Naphthylamine (CAS 134-32-7)

b-Naphthylamine (CAS 91-59-8)

Dibenz(a,j)acridine (CAS 224-42-0)

Diphenvlamine (CAS 122-39-4)

Methylene chloride (CAS 75-09-2)

N-Nitrosodi-n-butylamine (CAS 924-16-3)

N-Nitrosopiperidine (CAS 100-75-4)

p-Acetophenetidide (CAS 62-44-2)

p-Dimethylaminoazobenzene (CAS 60-11-7)

Pentachlorobenzene (CAS 608-93-5)

Pentachloronitrobenzene (CAS 82-68-8)

Propyzamide (CAS 23950-58-5)

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

2-Picoline (CAS 109-06-8)	500 LBS
3-Methylcholanthrene (CAS 56-49-5)	500 LBS
4-Aminobiphenyl (CAS 92-67-1)	500 LBS
7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)	500 LBS
Acetophenone (CAS 98-86-2)	500 LBS
a-Naphthylamine (CAS 134-32-7)	500 LBS
b-Naphthylamine (CAS 91-59-8)	500 LBS
Dibenz(a,j)acridine (CAS 224-42-0)	500 LBS
Diphenylamine (CAS 122-39-4)	500 LBS
Methylene chloride (CAS 75-09-2)	500 LBS
N-Nitrosodi-n-butylamine (CAS 924-16-3)	500 LBS
N-Nitrosopiperidine (CAS 100-75-4)	500 LBS
p-Dimethylaminoazobenzene (CAS 60-11-7)	500 LBS
Pentachlorobenzene (CAS 608-93-5)	500 LBS
Pentachloronitrobenzene (CAS 82-68-8)	500 LBS
Propyzamide (CAS 23950-58-5)	500 LBS
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US. Pennsylvania RTK - Hazardous Substances

- 1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)
- 1-Chloronaphthalene (CAS 90-13-1)
- 2-Picoline (CAS 109-06-8)
- 3-Methylcholanthrene (CAS 56-49-5)
- 4-Aminobiphenyl (CAS 92-67-1)
- 7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)

Acetophenone (CAS 98-86-2)

a-Naphthylamine (CAS 134-32-7)

b-Naphthylamine (CAS 91-59-8)

Dibenz(a,j)acridine (CAS 224-42-0)

Diphenylamine (CAS 122-39-4)

Methylene chloride (CAS 75-09-2)

N-Nitrosodi-n-butylamine (CAS 924-16-3)

N-Nitrosopiperidine (CAS 100-75-4)

p-Acetophenetidide (CAS 62-44-2)

p-Dimethylaminoazobenzene (CAS 60-11-7)

Pentachlorobenzene (CAS 608-93-5)

Pentachloronitrobenzene (CAS 82-68-8)

Propyzamide (CAS 23950-58-5)

US. Rhode Island RTK

1,2,4,5-Tetrachlorobenzene (CAS 95-94-3)

1-Chloronaphthalene (CAS 90-13-1)

2-Picoline (CAS 109-06-8)

3-Methylcholanthrene (CAS 56-49-5)

4-Aminobiphenyl (CAS 92-67-1)

7,12-Dimethylbenz(a)anthracene (CAS 57-97-6)

Acetophenone (CAS 98-86-2) a-Naphthylamine (CAS 134-32-7) b-Naphthylamine (CAS 91-59-8) Dibenz(a,j)acridine (CAS 224-42-0) Diphenylamine (CAS 122-39-4) Methylene chloride (CAS 75-09-2) N-Nitrosodi-n-butylamine (CAS 924-16-3) N-Nitrosopiperidine (CAS 100-75-4) p-Acetophenetidide (CAS 62-44-2)

p-Dimethylaminoazobenzene (CAS 60-11-7) Pentachlorobenzene (CAS 608-93-5) Pentachloronitrobenzene (CAS 82-68-8) Propyzamide (CAS 23950-58-5)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

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

3-Methylcholanthrene (CAS 56-49-5) Listed: January 1, 1990 4-Aminobiphenyl (CAS 92-67-1) Listed: February 27, 1987 7,12-Dimethylbenz(a)anthracene (CAS 57-97-6) Listed: January 1, 1990 a-Naphthylamine (CAS 134-32-7) Listed: October 1, 1989 b-Naphthylamine (CAS 91-59-8) Listed: February 27, 1987 Dibenz(a,j)acridine (CAS 224-42-0) Listed: January 1, 1988 Methylene chloride (CAS 75-09-2) Listed: April 1, 1988 N-Nitrosodi-n-butylamine (CAS 924-16-3) Listed: October 1, 1987 N-Nitrosopiperidine (CAS 100-75-4) Listed: January 1, 1988 p-Acetophenetidide (CAS 62-44-2) Listed: October 1, 1989 p-Dimethylaminoazobenzene (CAS 60-11-7) Listed: January 1, 1988 Propyzamide (CAS 23950-58-5) Listed: May 1, 1996

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)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
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	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

10-21-2014 Issue date

Version # 01

NFPA ratings Health: 2

Flammability: 1 Instability: 0

Material name: Semi-Volatiles Supplement Mixture - 8270B

13 / 14 403 Version #: 01 Issue date: 10-21-2014

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.

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