



Safety Data Sheet

Gun Wash Blend

Version 1.3

Revision Date: 09/01/2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Gun Wash Blend

Recommended use of the chemical and restrictions on use

Recommended use : Line Flush
industrial chemical

Manufacturer or supplier's details

Company : Univar Solutions USA, Inc.
Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515
United States of America (USA)

Emergency telephone number:

Transport North America: CHEMTREC (1-800-424-9300)
CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2661
Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 2

Specific target organ toxicity - single exposure : Category 2 (Central nervous system, Eyes)

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

Specific target organ toxicity - repeated exposure : Category 2 (Central nervous system, Kidney, Liver)

Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (Auditory system, Eyes)

Aspiration hazard : Category 1



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		TWA	200 ppm 590 mg/m ³	OSHA P0
		STEL	300 ppm 885 mg/m ³	OSHA P0
109-60-4	Propyl acetate	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 840 mg/m ³	NIOSH REL
		ST	250 ppm 1,050 mg/m ³	NIOSH REL
		TWA	200 ppm 840 mg/m ³	OSHA Z-1
		TWA	200 ppm 840 mg/m ³	OSHA P0
		STEL	250 ppm 1,050 mg/m ³	OSHA P0
111-76-2	2-Butoxy ethanol	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m ³	NIOSH REL
		TWA	50 ppm 240 mg/m ³	OSHA Z-1
		TWA	25 ppm 120 mg/m ³	OSHA P0
64-17-5	Ethanol	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m ³	OSHA P0
		STEL	1,000 ppm	ACGIH
		PEL	1,000 ppm 1,900 mg/m ³	CAL PEL
67-63-0	Isopropyl alcohol	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m ³	NIOSH REL
		ST	500 ppm 1,225 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	OSHA Z-1
		TWA	400 ppm 980 mg/m ³	OSHA P0
		STEL	500 ppm 1,225 mg/m ³	OSHA P0
25551-13-7	**Benzene, trimethyl-	TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m ³	OSHA P0
141-78-6	Ethyl acetate	TWA	400 ppm	ACGIH
		TWA	400 ppm 1,400 mg/m ³	NIOSH REL
		TWA	400 ppm 1,400 mg/m ³	OSHA Z-1

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		TWA	400 ppm 1,400 mg/m ³	OSHA P0
142-82-5	Heptane	TWA	85 ppm 350 mg/m ³	NIOSH REL
		C	440 ppm 1,800 mg/m ³	NIOSH REL
		TWA	500 ppm 2,000 mg/m ³	OSHA Z-1
		TWA	400 ppm 1,600 mg/m ³	OSHA P0
		STEL	500 ppm 2,000 mg/m ³	OSHA P0
95-63-6	**1,2,4-trimethylbenzene	TWA	25 ppm 125 mg/m ³	NIOSH REL
		TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m ³	OSHA P0
108-10-1	Methyl isobutyl ketone	TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH
		TWA	50 ppm 205 mg/m ³	NIOSH REL
		ST	75 ppm 300 mg/m ³	NIOSH REL
		TWA	100 ppm 410 mg/m ³	OSHA Z-1
		TWA	50 ppm 205 mg/m ³	OSHA P0
		STEL	75 ppm 300 mg/m ³	OSHA P0
110-43-0	Methyl amyl ketone	TWA	50 ppm	ACGIH
		TWA	100 ppm 465 mg/m ³	NIOSH REL
		TWA	100 ppm 465 mg/m ³	OSHA Z-1
		TWA	100 ppm 465 mg/m ³	OSHA P0
110-54-3	Hexane	TWA	50 ppm	ACGIH
		TWA	50 ppm 180 mg/m ³	NIOSH REL
		TWA	500 ppm 1,800 mg/m ³	OSHA Z-1
		TWA	50 ppm 180 mg/m ³	OSHA P0
91-20-3	**Naphthalene	TWA	10 ppm	ACGIH
		TWA	10 ppm 50 mg/m ³	NIOSH REL
		ST	15 ppm 75 mg/m ³	NIOSH REL
		TWA	10 ppm 50 mg/m ³	OSHA Z-1
		TWA	10 ppm 50 mg/m ³	OSHA P0
		STEL	15 ppm	OSHA P0



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			75 mg/m ³	
98-82-8	**Cumene	TWA	50 ppm	ACGIH
		TWA	50 ppm 245 mg/m ³	NIOSH REL
		TWA	50 ppm 245 mg/m ³	OSHA Z-1
		TWA	50 ppm 245 mg/m ³	OSHA P0

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Clear, Colorless

Odour : No data available

Odour Threshold : No data available

pH : No data available



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Freezing Point	: No data available
Boiling Point	: No data available
Flash point	: > -20 °C (> -4 °F)
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0.821 g/cm ³ @ 20 °C (68 °F)
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Acids Aldehydes Alkali metals aluminum Amines Ammonia



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Bases
Chloroform
Halogenated compounds
halogens
hydrogen peroxide
lithium aluminum hydride
Metals
nitrates
Nitrogen oxides (NO_x)
Oxidizing agents
Reducing agents
Peroxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

- Acute oral toxicity : Acute toxicity estimate: 1,207 mg/kg
- Acute inhalation toxicity : Acute toxicity estimate: 25.33 mg/l
Exposure time: 4 h
Test atmosphere: vapour
- Acute dermal toxicity : Acute toxicity estimate: 2,876 mg/kg

Components:

1330-20-7:

- Acute inhalation toxicity : LC50 (Rat, male): 6700 ppm
Exposure time: 4 h
Assessment: The component/mixture is moderately toxic after short term inhalation.
- Acute dermal toxicity : LD50 (Rabbit): 1,700 mg/kg
Assessment: The component/mixture is moderately toxic after single contact with skin.

67-56-1:

- Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.
- Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation.
Remarks: Supporting toxicological evidence is limited for this classification. This harmonized classification will replace the indicated classification due to industry leaders and the EU Harmonized Classification (Annex VII).
- Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.



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111-76-2:

- Acute oral toxicity : LD50 (Rat): 1,300 mg/kg
- Acute inhalation toxicity : LC50 (Rat, male): 2.56 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The component/mixture is moderately toxic after short term inhalation.
- Acute dermal toxicity : LD0 (Guinea pig, male and female): > 2,000 mg/kg

Assessment: The component/mixture is moderately toxic after single contact with skin.

108-10-1:

- Acute inhalation toxicity : LC50 (Rat): 11.6 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The component/mixture is moderately toxic after short term inhalation.

110-43-0:

- Acute oral toxicity : LD50 (Rat): 1,670 mg/kg
Assessment: The component/mixture is moderately toxic after single ingestion.
- Acute inhalation toxicity : LC50 (Rat): > 16.7 mg/l
Exposure time: 4 h
Assessment: The component/mixture is moderately toxic after short term inhalation.

5989-27-5:

- Acute oral toxicity : LD50 (Rat): 4,400 mg/kg
Assessment: The component/mixture is minimally toxic after single ingestion.
- Acute inhalation toxicity : Remarks: No data available
- Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Species: Rabbit
Exposure time: 4 h
Result: Irritating to skin.

1330-20-7:

Species: Rabbit
Exposure time: 24 h



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Result: Irritating to skin.

108-88-3:

Species: Rabbit
Exposure time: 4 h
Result: Irritating to skin.

67-63-0:

Species: Rabbit
Result: Irritating to skin.

111-76-2:

Result: Irritating to skin.

142-82-5:

Species: Rabbit
Exposure time: 24 h
Result: Irritating to skin.
Remarks: Based on a similar product formulation.

110-54-3:

Species: Rabbit
Result: Irritating to skin.

5989-27-5:

Species: Rabbit
Result: Irritating to skin.

Serious eye damage/eye irritation

Components:

67-64-1:

Species: Rabbit
Result: Irritating to eyes.
Exposure time: 24 h

1330-20-7:

Species: Rabbit
Result: Irritating to eyes.

71-23-8:

Species: Rabbit
Result: Risk of serious damage to eyes.
Exposure time: 72 h

108-88-3:

Species: Rabbit
Result: Irritating to eyes.

78-93-3:

Species: Rabbit
Result: Irritating to eyes.
Exposure time: 24 h



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109-60-4:

Species: Rabbit
Result: Irritating to eyes.

67-63-0:

Species: Rabbit
Result: Irritating to eyes.

64-17-5:

Species: Rabbit
Result: Irritating to eyes.

111-76-2:

Species: Rabbit
Result: Irritating to eyes.

141-78-6:

Species: Rabbit
Result: Irritating to eyes.

108-10-1:

Species: Rabbit
Result: Irritating to eyes.

5989-27-5:

Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitisation

Components:

5989-27-5:

Test Type: lymph node assay
Species: Mouse
Result: May cause sensitisation by skin contact.

Germ cell mutagenicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Germ cell mutagenicity - Assessment : Mutagenicity classification not possible from current data

108-88-3:

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

5989-27-5:

Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay
Species: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : Test Type: DNA damage and/or repair



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Species: Rat
Cell type: Kidney cells
Application Route: Oral
Result: negative

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

108-88-3:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

5989-27-5:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

IARC

Group 2B: Possibly carcinogenic to humans

108-10-1 Methyl isobutyl ketone

91-20-3 **Naphthalene

98-82-8 **Cumene

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

Reasonably anticipated to be a human carcinogen

91-20-3 **Naphthalene

Reproductive toxicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Teratogenicity - Assessment : Embryotoxicity classification not possible from current data.

108-88-3:

Effects on foetal development : Species: Rat
Application Route: inhalation (vapour)
Dose: 0, 250, 750, 1500, 3000 ppm
Duration of Single Treatment: 10 d



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Frequency of Treatment: 6 hr/day
General Toxicity Maternal: NOAEC: 750 ppm
Developmental Toxicity: NOAEC: 750 ppm
Symptoms: Maternal toxicity, Reduced body weight, Skeletal malformations

Teratogenicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

Reproductive toxicity - Assessment : No toxicity to reproduction

110-54-3:

Effects on fertility : Species: Rat, male
Application Route: inhalation (vapour)
Frequency of Treatment: 6 days/week
General Toxicity - Parent: LOAEL: 5,000 ppm
Symptoms: Testicular effects

Effects on foetal development : Test Type: Fertility/early embryonic development
Species: Mouse
Application Route: inhalation (vapour)
Duration of Single Treatment: 12 d
Developmental Toxicity: LOAEC: 200 ppm
Result: Teratogenic potential

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Teratogenicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

5989-27-5:

Reproductive toxicity - Assessment : Fertility classification not possible from current data.

Teratogenicity - Assessment : Embryotoxicity classification not possible from current data.

STOT - single exposure

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

67-64-1:

Exposure routes: Inhalation

Target Organs: Central nervous system



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Assessment: May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

1330-20-7:

Assessment: May cause respiratory irritation.

123-86-4:

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

67-56-1:

Target Organs: Eyes, Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

71-23-8:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

108-88-3:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

78-93-3:

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

109-60-4:

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

67-63-0:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

141-78-6:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

142-82-5:

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

108-10-1:

Target Organs: Respiratory system



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Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

110-54-3:

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT - repeated exposure

Components:

1330-20-7:

Target Organs: Central nervous system, Kidney, Liver

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

108-88-3:

Exposure routes: Inhalation

Target Organs: Auditory system, Eyes

Assessment: May cause damage to organs through prolonged or repeated exposure., The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

110-54-3:

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration toxicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

May be fatal if swallowed and enters airways.

1330-20-7:

May be fatal if swallowed and enters airways.

108-88-3:

May be fatal if swallowed and enters airways.

142-82-5:

May be fatal if swallowed and enters airways.

110-54-3:

May be fatal if swallowed and enters airways.

5989-27-5:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.



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Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l
Exposure time: 96 h
- LC50 (Oncorhynchus mykiss (rainbow trout)): 8.2 mg/l
Exposure time: 96 h
Test Type: semi-static test
- LC50 (Pimephales promelas (fathead minnow)): 8.2 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.5 mg/l
Exposure time: 48 h
Test Type: Immobilization
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l
Exposure time: 72 h
- EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7 mg/l
Exposure time: 96 h
Test Type: static test
- Toxicity to fish (Chronic toxicity) : NOELR (Pimephales promelas (fathead minnow)): 2.6 mg/l
Exposure time: 14 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 2.6 mg/l
Exposure time: 21 d
- Chronic aquatic toxicity- Assessment : Toxic to aquatic life with long lasting effects.

123-86-4:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 18 mg/l
Exposure time: 96 h
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 44 mg/l
Exposure time: 48 h
Test Type: static test
- Acute aquatic toxicity- Assessment : Harmful to aquatic life.



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Chronic aquatic toxicity- Assessment : This product has no known ecotoxicological effects.

108-88-3:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.5 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia): 3.78 mg/l
Exposure time: 48 h
Test Type: Renewal

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.74 mg/l
Exposure time: 7 d

Acute aquatic toxicity- Assessment : Toxic to aquatic life.

Chronic aquatic toxicity- Assessment : Harmful to aquatic life with long lasting effects.

109-60-4:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 60 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 91.5 mg/l
Exposure time: 48 h
Test Type: Immobilization

Acute aquatic toxicity- Assessment : Harmful to aquatic life.

Chronic aquatic toxicity- Assessment : This product has no known ecotoxicological effects.

142-82-5:

Toxicity to fish : LC50 (Carassius auratus (goldfish)): 4 mg/l
Exposure time: 24 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.5 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to fish (Chronic toxicity) : NOELR (Oncorhynchus mykiss (rainbow trout)): 1.284 mg/l
Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.17 mg/l
Exposure time: 21 d

Acute aquatic toxicity- Assessment : Very toxic to aquatic life.



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Chronic aquatic toxicity- Assessment : Very toxic to aquatic life with long lasting effects.

110-54-3:

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 9.285 mg/l
Exposure time: 72 h
Remarks: Modeled result from QSAR

Toxicity to fish (Chronic toxicity) : NOELR (Oncorhynchus mykiss (rainbow trout)): 2.8 mg/l
Exposure time: 28 d
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Supporting toxicological evidence is limited for this classification. This harmonized classification will replace the indicated classification due to industry leaders and the EU Harmonized Classification (Annex VII).

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 4.888 mg/l
Exposure time: 21 d
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Supporting toxicological evidence is limited for this classification. This harmonized classification will replace the indicated classification due to industry leaders and the EU Harmonized Classification (Annex VII).

Acute aquatic toxicity- Assessment : Toxic to aquatic life.

Chronic aquatic toxicity- Assessment : Toxic to aquatic life with long lasting effects.

5989-27-5:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.702 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.36 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 150 mg/l
Exposure time: 72 h
Test Type: static test

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0.19 mg/l
Exposure time: 8 d



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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.08 mg/l
Exposure time: 21 d

Acute aquatic toxicity- Assessment : Very toxic to aquatic life.

Chronic aquatic toxicity- Assessment : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

No data available

Bioaccumulative potential

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Partition coefficient: n-octanol/water : log Pow: 2.13 - 4.85 (25 °C)

108-88-3:

Partition coefficient: n-octanol/water : log Pow: 2.73 (20 °C)
pH: 7

95-63-6:

Partition coefficient: n-octanol/water : Remarks: No data available

5989-27-5:

Bioaccumulation : Bioconcentration factor (BCF): 908.5

Partition coefficient: n-octanol/water : log Pow: 4.57

log Pow: 4.38 (37 °C)
pH: 7.2

91-20-3:

Partition coefficient: n-octanol/water : log Pow: 3.4 (25 °C)
pH: 7 - 7.5

98-82-8:

Partition coefficient: n-octanol/water : log Pow: 3.55 (23 °C)

Mobility in soil

Components:

71-23-8:

Stability in soil : Remarks: Not expected to adsorb on soil.



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Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Uni-var Solutions ChemCare: 1-800-909-4897

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN1993, Flammable liquids, n.o.s., (MIXTURE OF PETROLEUM DISTILLATES, MIXED XYLENES), 3, II

IATA (International Air Transport Association):

UN1993, FLAMMABLE LIQUID, N.O.S., (MIXTURE OF PETROLEUM DISTILLATES, MIXED XYLENES) , 3, II

IMDG (International Maritime Dangerous Goods):

UN1993, FLAMMABLE LIQUID, N.O.S., (MIXTURE OF PETROLEUM DISTILLATES, MIXED XYLENES), 3, II, Marine Pollutant (MIXTURE OF PETROLEUM DISTILLATES) , Flash Point:> -20 °C(> -4 °F)

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
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Mixed xylenes	1330-20-7	100	1092
Toluene	108-88-3	1000	16664

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitisation
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)
Aspiration hazard

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

1330-20-7	Mixed xylenes
67-56-1	Methanol
108-88-3	Toluene
111-76-2	2-Butoxy ethanol
67-63-0	Isopropyl alcohol
95-63-6	**1,2,4-trimethylbenzene
108-10-1	Methyl isobutyl ketone
112-34-5	Diethylene glycol mono-butyl ether
91-20-3	**Naphthalene

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

67-56-1	Methanol
108-88-3	Toluene
108-10-1	Methyl isobutyl ketone

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489):

67-64-1	Acetone
1330-20-7	Mixed xylenes
123-86-4	n-Butyl acetate
67-56-1	Methanol
71-23-8	n-Propanol
108-88-3	Toluene
78-93-3	Methyl ethyl ketone
111-76-2	2-Butoxy ethanol
64-17-5	Ethanol
67-63-0	Isopropyl alcohol
141-78-6	Ethyl acetate
108-10-1	Methyl isobutyl ketone

Clean Water Act



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The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

1330-20-7	Mixed xylenes
123-86-4	n-Butyl acetate
108-88-3	Toluene
540-88-5	Tert-butyl acetate
91-20-3	**Naphthalene
110-19-0	Isobutyl acetate
71-43-2	**Benzene
100-41-4	**Ethylbenzene

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

1330-20-7	Mixed xylenes
123-86-4	n-Butyl acetate
108-88-3	Toluene
91-20-3	**Naphthalene
71-43-2	**Benzene
100-41-4	**Ethylbenzene

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

108-88-3	Toluene
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Massachusetts Right To Know

67-64-1	Acetone
1330-20-7	Mixed xylenes
123-86-4	n-Butyl acetate
67-56-1	Methanol
71-23-8	n-Propanol
108-88-3	Toluene
78-93-3	Methyl ethyl ketone
109-60-4	Propyl acetate
111-76-2	2-Butoxy ethanol
64-17-5	Ethanol
67-63-0	Isopropyl alcohol
25551-13-7	**Benzene, trimethyl-
141-78-6	Ethyl acetate
142-82-5	Heptane
95-63-6	**1,2,4-trimethylbenzene
98-06-6	**Butylbenzene, tert-
108-10-1	Methyl isobutyl ketone
110-43-0	Methyl amyl ketone
71-43-2	**Benzene

Pennsylvania Right To Know

68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, It dist hydrotreat process, low-boil AND/OR Naphtha (pet), hy- drotreated It AND/OR Solvent naphtha (pet), It aliph.
67-64-1	Acetone
1330-20-7	Mixed xylenes
123-86-4	n-Butyl acetate
67-56-1	Methanol
71-23-8	n-Propanol
108-88-3	Toluene
78-93-3	Methyl ethyl ketone



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109-60-4	Propyl acetate
111-76-2	2-Butoxy ethanol
64-17-5	Ethanol
67-63-0	Isopropyl alcohol
25551-13-7	**Benzene, trimethyl-
141-78-6	Ethyl acetate
142-82-5	Heptane
95-63-6	**1,2,4-trimethylbenzene
98-06-6	**Butylbenzene, tert-
108-10-1	Methyl isobutyl ketone
110-43-0	Methyl amyl ketone
112-34-5	Diethylene glycol monobutyl ether
71-36-3	1-Butanol
540-88-5	Tert-butyl acetate
91-20-3	**Naphthalene
98-82-8	**Cumene
107-21-1	Ethylene glycol
110-19-0	Isobutyl acetate

California Prop 65

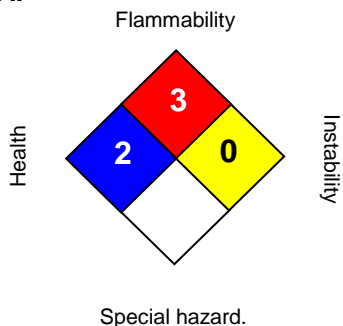
⚠ WARNING: This product can expose you to chemicals including Methyl isobutyl ketone, **Naphthalene, **Cumene, **Benzene, **Ethylbenzene, which is/are known to the State of California to cause cancer, and Methanol, Toluene, Methyl isobutyl ketone, Hexane, Ethylene glycol, **Benzene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TSCA : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 =Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions



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beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 09/01/2019

Legacy SDS: : 100000023338

Material number:
16106648, 16072117, 16071807

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials



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			Information System
LC50	Lethal Concentration 50%		