Safety Data Sheet

1. Identification

Product identifier	Wash Thinner
Product code	99

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name	PBE Jobbers Warehouse
Address	2921 Syene Rd Madison, WI 53713
Telephone	608-274-8797

Emergency phone number EMERGENCY 24 Hrs. 800-424-9300ChemTrec

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids	: Category 2
Acute toxicity (Oral)	: Category 3
Acute toxicity (Inhalation)	: Category 3
Acute toxicity (Dermal)	: Category 3
Skin irritation	: Category 2
Eye irritation	: Category 2A
Germ cell mutagenicity	: Category IB
Carcinogenicity	: Category 2
Reproductive toxicity	: Category 2
Specific target organ toxicity - single exposure	: Category 1 (Eyes, Central nervous system)

Specific target organ toxicity - single exposure	: Category 3 (Central nervous system)
Specific target organ toxicity - repeated exposure (Inhalation)	: Category 2 (Auditory system, Eyes)
Aspiration hazard	: Category 1

GHS Label element

Hazard pictograms

Signal word Hazard : Danger

statements : H225 Highly flammable liquid and vapour.
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled
H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H370 Causes damage to organs (Eyes, Central nervous system).
H373 May cause damage to organs (Auditory system, Eyes) through prolonged or repeated exposure if inhaled.

Precautionary statements **: Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection.
P281 Use personal protective equipment as required.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.
P331 Do NOT induce vomiting.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Carcinogenicity:

IARC Group 2B: Possibly carcinogenic to humans

64742 -49-0 Naphtha (pet), hydrotreated

lt

64742-89-8 Solvent naphtha (pet), lt

aliph.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Emergency Overview

Appearance	liquid
Colour	clear, colourless
Hazard Summary	No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical Name	Concentration (%)
67-56-1	Methanol	30 - 50
108-88-3	Toluene	30 - 50
67-64-1	Acetone	10 - 20
64742-49-0	Naphtha (pet), hydrotreated It	0 - 20
64742-89-8	Solvent naphtha (pet). It aliph.	0 - 20
68410-97-9	Distillates, pet, It dist hydrotreat process, low-boil	0 - 20
142-82-5	Heptane	0.1 - 1

Special Notes: : Functionally equivalent petroleum streams may be found in this preparation at varying concentrations.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in atten-

dance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.
If unconscious place in recovery position and seek medical advice.

In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (C02)
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods : Use a water spray to cool fully closed containers.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing wa-

ter must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.

Special protective equip- : Wear self-contained breathing apparatus for firefight- ment for Firefighters ing if necessary.

NFPA Flammable and Combustible Liquids Classification:
Flammable Liquid Class IB

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, : Use personal protective equipment, protective equipment and Ensure adequate ventilation, emergency procedures Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations.
Vapours can accumulate in low areas.

Environmental precau- : Prevent product from entering drains.
tions
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Container may be opened only under exhaust ventilation hood.

Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
67-56-1	Methanol	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-I
		STEL	250 ppm 325 mg/m3	OSHA P0
		TWA	200 ppm 260 mg/m3	OSHA P0
108-88-3	Toluene	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m3	NIOSH REL
		ST	150 ppm 560 mg/m3	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA P0
		STEL	150 ppm 560 mg/m3	OSHA P0
67-64-1	Acetone	TWA	500 ppm	ACGIH

		STEL	750 ppm	ACGIH
		TWA	250 ppm 590 mg/m3	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m3	OSHA Z-I
		TWA	750 ppm 1,800 mg/m3	OSHA P0
		STEL	1,000 ppm 2,400 mg/m3	OSHA P0
64742-49-0	Naphtha (pet), hydrotreated lt	TWA	500 ppm 2,000 mg/m3	OSHA Z-I
		TWA	400 ppm 1,600 mg/m3	OSHA P0
64742-89-8	Solvent naphtha (pet), lt aliph.	TWA	500 ppm 2,000 mg/m3	OSHA Z-I
		TWA	400 ppm 1,600 mg/m3	OSHA P0
142-82-5	Heptane	TWA	85 ppm 350 mg/m3	NIOSH REL
		C	440 ppm 1,800 mg/m3	NIOSH REL
		TWA	500 ppm 2,000 mg/m3	OSHA Z-I
		TWA	400 ppm 1,600 mg/m3	OSHA P0
		STEL	500 ppm 2,000 mg/m3	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parame - ters	Biological specimen	Sam pling time	Permissible concentration	Basis
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after expo sure ceases)	15 mg/l	ACGI H BEI
Toluene	108-88-3	Toluene	In blood	Prior to last shift of work-week	0.02 mg/l	ACGI H BEI
		Toluene	Urine	End of shift (As soon as	0.03 mg/l	ACGI H BEI

				possible after expo sure ceases)		
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ACGI H BEI
Acetone	67-64-1	Acetone	Urine	End of shift (As soon as possible after exposure ceases)	50 mg/l	ACGI H BEI

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
In the case of vapour formation use a respirator with an approved filter.

Hand protection
Remarks : The suitability for a specific workplace should be dis cussed 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 : Avoid contact with skin, eyes and clothing.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and immediately after handling the product.

Appearance	liquid
Colour	clear, colourless
Odour	No data available
Odour Threshold pH	No data available
Freezing Point	No data available
Boiling Point (Boiling point/boiling range)	No data available
Flash point	56 - 150 °C (133 - 302 °F)
Evaporation rate	>= -20.00 °C (-4.00 °F)
Flammability (solid, gas)	No data available
Burning rate	No data available
Upper explosion limit	No data available
Lower explosion limit	7 - 36.5 %(V)
Vapour pressure	0.8 - 6 %(V)
Relative vapour density	231 mmHg @ 25 °C (77 °F) Calculated Vapor Pressure
Relative density	No data available
Density	0.808 @ 20 °C (68 °F)
Bulk density	0.808 g/cm3 @ 20 °C (68 °F)
Water solubility	No data available
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES No data available

Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources. Extremes of temperature and direct sunlight.
Incompatible materials	: Acids alkalis aluminum Amines Ammonia halogens Lead Peroxides Reducing agents Strong bases Strong oxidizing agents Zinc metal salts

SECTION 11. TOXICOLOGICAL INFORMATION Acute toxicity

Product;

Acute oral toxicity	: Acute toxicity estimate : 249.97 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate : 7.5 mg/l Exposure time: 4 h Test atmosphere: vapour

Acute dermal toxicity
Method: Calculation method

: Acute toxicity estimate : 749.98 mg/kg
Method: Calculation method

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67-56-1:
Acute oral toxicity

: LD50 (rat): 100 mg/kg
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity

: LC50 (rat): 5 mg/l
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity

: LD50 (rabbit): 300 mg/kg Assessment: The component/mixture is toxic after single contact with skin.

108-88-3:

Acute oral toxicity

Acute inhalation toxicity

: LD50 (rat, male): > 5,580 mg/kg

: LC50 (rat, male and female): 28.1 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403

Acute dermal toxicity

: LD50 (rabbit): > 5,000 mg/kg

67-64-1:
Acute oral toxicity

: LD50 (rat): 5,800 mg/kg

Acute inhalation toxicity

: LC50 (rat): 76.0 mg/l
Exposure time: 4 h

Acute dermal toxicity

: LD50 : > 7,426 mg/kg

64742-49-0:
Acute oral toxicity

: LD50 (rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes

Acute inhalation toxicity

: Remarks: No data available

Acute dermal toxicity

: LD50 (rabbit, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes

64742-89-8:
Acute oral toxicity

: LD50 (rat, male and female): > 5,000 mg/kg

	Method: OECD Test Guideline 401 GLP: yes
	Remarks: No data available
Acute inhalation toxicity	
Acute dermal toxicity	LD50 (rabbit, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes
	LD50 (rat): > 5,000 mg/kg Remarks: No data available LD50
68410-97-9:	
Acute oral toxicity	(rabbit): > 2,000 mg/kg
Acute inhalation toxicity	LD50 (rat, male and female): 5,000 mg/kg Method: OECD Test Guideline 401 Symptoms: Salivation GLP: yes Remarks: Information given is based on data obtained from similar substances.
Acute dermal toxicity	
142-82-5:	
Acute oral toxicity	LC50 (rat, male and female): 73.5 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403
	LD50 (rabbit, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Remarks: Information given is based on data obtained from similar substances.
Acute inhalation toxicity	

Skin corrosion/irritation

Product;

Acute dermal toxicity
Remarks: Irritating to skin.

Components;

67-56-1:
Species: rabbit Result: No skin irritation

108-88-3:
Species: rabbit Exposure time: 4 h Result: Irritating to skin.

67-64-1:
Species: rabbit Exposure time: 24 h Method: In vivo
Result: Mild skin irritation

64742-49-0:
Species: rabbit Result: Irritating to skin.

64742-89-8:
Species: rabbit Exposure time: 4 h Result:
Irritating to skin.

68410-97-9:
Species: rabbit Result: Irritating to skin.

142-82-5:
Species: rabbit
Exposure time: 24 h
Method: OECD Test Guideline 404
Result: Irritating to skin.
GLP: yes
Remarks: Based on a similar product formulation.

Serious eye damage/eye irritation

Product;
Remarks: Irritating to eyes.

Components:

67-56-1:
Species: rabbit Result: No eye irritation

108-88-3:
Species: rabbit Result: Irritating to eyes.
Method: OECD Test Guideline 405 **67-64-1:**
Species: rabbit Result: Irritating to eyes. Exposure time:
24 h

64742-49-0:
Species: rabbit

Result: Irritating to eyes.

64742-89-8:
Species: rabbit Result: Irritating to eyes.

68410-97-9:
Species: rabbit Result: Irritating to eyes.

142-82-5:
Species: rabbit Result: Irritating to eyes.
Method: OECD Test Guideline 405 GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Respiratory or skin sensitisation

Components:
67-56-1:
Test Type: Maximisation Test (GPMT)
Species: guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.

108-88-3:
Test Type: Maximisation Test (GPMT)
Species: guinea pig
Result: Did not cause sensitisation on laboratory animals. GLP: yes

67-64-1:
Test Type: Maximization test Species: guinea pig
Result: Did not cause sensitisation on laboratory animals.

64742-49-0:
Test Type: BuehlerTest Species: guinea pig
Result: Did not cause sensitisation on laboratory animals.

64742-89-8:
Test Type: BuehlerTest Species: guinea pig
Result: Did not cause sensitisation on laboratory animals.

142-82-5:
Test Type: Maximization test Species: guinea pig
Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation. Remarks: Based on a similar product formulation.

Germ cell mutagenicity Components;

67-56-1:

Genotoxicity in vitro : Test Type: DNA damage and/or repair
Metabolic activation: with and without metabolic activation
Result: Ambiguous

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Test species: mouse (male and female)
Cell type: Bone marrow
Application Route: Intraperitoneal
Exposure time: Single
Dose: 0, 1920, 3200, 4480 mg/kg
Result: negative

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

108-88-3:

Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay
Test species: Mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Dominant lethal assay
Test species: mouse (male)
Application Route: inhalation (vapour)
Exposure time: 6 h/d, 5 d/wk for 8 wks
Dose: 0, 100, 400 ppm
Method: OECD Test Guideline 478
Result: negative

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

67-64-1:

Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay
Test species: Mouse lymphoma cells
Metabolic activation: Without metabolic activation Method: OECD Test Guideline 476
Result: negative

	: Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
	: Test Type: Chromosome aberration test in vitro Test species: Chinese hamster ovary (CHO) Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Test species: mouse Application Route: Oral Exposure time: 13 wk Dose: 5,000, 10,000, 20,000 ppm Result: negative
Germ cell mutagenicity-Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
64742-49-0: Germ cell mutagenicity-Assessment	: Mutagenicity classification not possible from current data
64742-89-8: Germ cell mutagenicity-Assessment	: Mutagenicity classification not possible from current data
68410-97-9: Genotoxicity in vitro	: Test Type: Mammalian cell gene mutation assay Test species: mouse lymphoma cells Result: positive
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Test species: mouse Method: OECD Test Guideline 474 Result: positive
Germ cell mutagenicity-Assessment	: Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals
142-82-5: Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Test species: Rat liver Metabolic activation: Without metabolic activation Method: OECD Test Guideline 473 Result: negative

: Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Germ cell mutagenicity- Assessment : Did not show mutagenic effects in animal experiments.

Carcinogenicity

Comnonents;
67-56-1:
Carcinogenicity - Assessment : Suspected human carcinogens
108-88-3:
Species: rat, (male and female)
Application Route: inhalation (vapour)
Exposure time: 103 wks
Dose: 0, 600, 1200 ppm
Frequency of Treatment: 6.5 h/d, 5 d/wk
NOAEL: No observed adverse effect level: 1,200 ppm

Method: OECD Test Guideline 453 Result: did not display carcinogenic properties Symptoms: Erosion of nasal epithelium GLP: yes

Carcinogenicity - Assessment : Not classifiable as a human carcinogen,
67-64-1:
Species: mouse, (female)
Application Route: Dermal
Exposure time: 365 d (90%) or 424 d (100%)
Dose: 0.1ml 90(71mg) or 100% (79mg)
Frequency of Treatment: 3 times per wk NOAEL: 79

Result: did not display carcinogenic properties

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

64742-49-0:
Carcinogenicity - Assessment : Not classifiable as a human carcinogen,

64742-89-8:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen,

68410-97-9:

Species: mouse NOAEL: 50 mg/kg bw/day

Method: OECD Test Guideline 451 Result: evidence of carcinogenic activity

Carcinogenicity - Assessment **142-82-5:** : Possible human carcinogen

Remarks: This information is not available.

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

Reproductive toxicity

Components;

67-56-1:

Effects on fertility : Test Type: Two-generation study Species: rat, male and female Application Route: Inhalation Dose: 0, 0.013, 0.13, 1.3 mg/L Duration of Single Treatment: 20 h General Toxicity - Parent: NOAEC: 1.3 mg/l General Toxicity FI: NOAEC: 0.13 mg/l Fertility: NOAEC: 1.3 mg/l Symptoms: Effects on postnatal development.
Result: Animal testing did not show any effects on fertility.

Effects on foetal development : Species: rat
Application Route: inhalation (vapour)
Dose: 0, 6.65, 13.3, 26.6 mg/L Duration of Single Treatment: 20 d Frequency of Treatment: 7 hr/day General Toxicity Maternal: NOAEC: 13.3 mg/L Teratogenicity: NOAEC: 6.65 mg/L Result: Teratogenic effects.

: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

108-88-3:

Reproductive toxicity - Assessment

Effects on fertility	: Test Type: Two-generation study Species: rat, male and female Application Route: Inhalation Dose: 0, 100, 500, 2000 ppm Frequency of Treatment: 7 days/week General Toxicity - Parent: NOAEC: 500 ppm General Toxicity FI: NOAEC: 500 ppm Fertility: NOAEC: 2,000 ppm Symptoms: Reduced maternal body weight gain. Reduced offspring weight gain. Method: OECD Test Guideline 416 Result: Animal testing did not show any effects on fertility. GLP: yes Test Type: Fertility Species: rat, male and female Application Route: inhalation (vapour) Dose: 0, 600, 1200 ppm Frequency of Treatment: 7 days/week General Toxicity - Parent: NOAEC: 600 ppm Symptoms: Decreased sperm count Result: Animal testing did not show any effects on fertility.
Effects on foetal development	: Species: rat Application Route: inhalation (vapour) Dose: 0, 250, 750, 1500, 3000 ppm Duration of Single Treatment: 10 d 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. GLP: yes
Reproductive toxicity - Assessment	: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

67-64-1:

Effects on fertility	: Species: rat, male Application Route: oral Dose: 0, 5000, 10000 mg/L Frequency of Treatment: 7 days/week General Toxicity - Parent: LOAEL: 10,000 Fertility: 10,000
Effects on foetal development	: Species: rat Application Route: Inhalation

Dose: 0, 440, 2200, 11000 ppm
Frequency of Treatment: 7 days/week
General Toxicity Maternal: NOAEC: 2,200 ppm Teratogenicity: NOAEC: 11,000 ppm
Embryo-foetal toxicity.: NOAEC: 2,200 ppm
Method: OECD Test Guideline 414
Result: No teratogenic potential.
GLP: No data available

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.

64742-49-0:
Reproductive toxicity - Assessment : Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.

64742-89-8:
Reproductive toxicity - Assessment : Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.

68410-97-9:
Reproductive toxicity - Assessment : Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.

142-82-5:
Effects on fertility : Test Type: Two-generation study
Species: rat, male and female
Application Route: vapour
Dose: 0, 900, 3000, 9000 ppm
Frequency of Treatment: 5 days/week
General Toxicity - Parent: NOAEC: 3,000 ppm
General Toxicity FI: NOAEC: 3,000 ppm
Fertility: NOAEC: 9,000 ppm
Symptoms: Reduced maternal body weight gain. Reduced offspring weight gain.
Method: OECD Test Guideline 416
Result: No reproductive effects.
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Effects on foetal development : Species: mouse
Application Route: inhalation (vapour)
Dose: 0, 900, 3000, 9000 ppm
Duration of Single Treatment: 10 d
Frequency of Treatment: 6 hr/day

General Toxicity Maternal: NOAEC: 900 ppm
Developmental Toxicity: NOAEC: 3,000 ppm
Symptoms: Skeletal malformations.
Method: OECD Test Guideline 414 GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.
Embryotoxicity classification not possible from current data.

STOT - single exposure

Product: **No** data available

Components:

67-56-1:

Exposure routes:	Target Organs:	Assessment:	Remarks:
	Eyes, Central nervous system	Causes damage to organs., The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.	

108-88-3:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness.. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

67-64-1:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic	
		effects.	

64742-49-0:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

64742-89-8:No data available

68410-97-9:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	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:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

STOT - repeated exposure

Product;No data available

Components;
67-56-l:No data available

108-88-3:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Auditory system, Eyes	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.	

67-64-l:No data available

64742-49-0:No data available

64742-89-8:No data available

68410-97-9:No data available

142-82-5:No data available

Repeated dose toxicity

Comconfints;
67-56-1:
Species: mouse, male and female NOAEL: 1.3 mg/l Application Route: Inhalation Exposure time: 12 mths Number of exposures: Continuous Dose: 0, 0.013, 0.13, 1.3 mg/L

108-88-3:
Species: rat, male and female NOAEL: 300 Application Route: inhalation (vapour) Exposure time: 6, 12, or 18 mths Number of exposures: 6 h/d, 5 d/wk

Dose: 0, 30, 100, 300 ppm Method:
OECD Test Guideline 453

Repeated dose toxicity - Assessment : Causes skin irritation.
67-64-1:
Species: mouse, male
NOAEL: 20000
Application Route: Oral
Exposure time: 13 wk
Number of exposures: daily
Dose: 1250, 2500, 5000, 10000, 20000
Method: OECD Test Guideline 408
GLP: No data available

Species: mouse, female
NOAEL: 20000
LOAEL: 50000
Application Route: Oral
Exposure time: 13 wk
Number of exposures: daily
Dose: 2500, 5000, 10000, 20000, 5000
Method: OECD Test Guideline 408
GLP: No data available

Repeated dose toxicity - Assessment : Causes mild skin irritation., Causes serious eye irritation.

64742-89-8:
Species: rat, male and female
NOAEL: 1402
Application Route: inhalation (vapour)
Test atmosphere: vapour
Exposure time: 13 weeks
Number of exposures: 6 hours/day, 5 days/week
Dose: 322, 1402, 9869 mg/m3
GLP: yes
Target Organs: Kidney
Symptoms: Nasal and ocular discharge

142-82-5:
Species: rat, male
NOAEL: 12470 mg/m3
Application Route: inhalation (vapour)
Exposure time: 16 wks
Number of exposures: 12 h/d, 7 d/wk
Dose: 0, 12470 mg/3

Repeated dose toxicity - : Causes skin irritation.

Assessment

Aspiration toxicity

Components;
108-88-3:
Aspiration Toxicity - Category 1

64742-49-0:
May be fatal if swallowed and enters airways.

64742-89-8:
May be fatal if swallowed and enters airways.

68410-97-9:
May be fatal if swallowed and enters airways.

142-82-5:
Aspiration Toxicity - Category 1

Further information

Product;
Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components;
67-56-1:

Toxicity to fish	: LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l Exposure time: 96 h Test Type: flow-through test
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae	: EC50 (Scenedesmus capricornutum (fresh water algae)): 22,000 mg/l End point: Growth rate Exposure time: 96 h

	Test Type: static test Method: OECD Test Guideline 201
Toxicity to bacteria	: IC50 (activated sludge): > 1,000 mg/l End point: Growth rate Exposure time: 3 h Test Type: Static Method: OECD Test Guideline 209

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	: EC50 (Ceriodaphnia dubia): 3.78 mg/l Exposure time: 48 h Test Type: Renewal
Toxicity to algae	: EC50 (Chlorella vulgaris (Fresh water algae)): 134 mg/l Exposure time: 3 h Test Type: static test
Toxicity to bacteria	: IC50 (Bacteria): 84 mg/l Exposure time: 24 h Test Type: Static
Ecotoxicology Assessment Acute aquatic toxicity	: Toxic to aquatic life.
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.

67-64-1:

Toxicity to fish

	: LC50 (Oncorhynchus mykiss (rainbow trout)): 6,100 mg/l Exposure time: 48 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 7,630 mg/l Exposure time: 48 h Test substance: Acetone
Toxicity to algae	: Remarks: No data available

64742-49-0:

Toxicity to fish

	: LC50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic inverte-	: EC50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h

brates	: EC50 (Pseudokirchneriella subcapitata (green algae)): 3.71 mg/l Exposure time: 96 h
Toxicity to algae	
Ecotoxicology Assessment	: Toxic to aquatic life.
Acute aquatic toxicity	: Toxic to aquatic life with long lasting effects.
Chronic aquatic toxicity	
64742-89-8:	: LC50 (Oncorhynchus mykiss (rainbow trout)): 8.2 mg/l Exposure time: 96 h Test Type: semi-static test
Toxicity to fish	
	: EC50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h Test Type: Immobilization Analytical monitoring: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7 mg/l Exposure time: 96 h Test Type: static test
Toxicity to algae	
	: Toxic to aquatic life.
	: Toxic to aquatic life with long lasting effects.
Ecotoxicology Assessment	
Acute aquatic toxicity	: LC50 (Pimephales promelas (fathead minnow)): 8.2 mg/l Exposure time: 96 h
Chronic aquatic toxicity	
	: EC50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h
68410-97-9:	
Toxicity to fish	
	: EC50 (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates	
Toxicity to algae	: Toxic to aquatic life.
	: Toxic to aquatic life with long lasting effects.
Ecotoxicology Assessment	
Acute aquatic toxicity	
Chronic aquatic toxicity	

142-82-5:

Toxicity to fish	: LC50 (Carassius auratus (goldfish)): 4 mg/l Exposure time: 24 h Remarks: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 1.5 mg/l Exposure time: 48 h Test Type: static test Remarks: Very toxic to aquatic organisms.
Toxicity to algae	: Remarks: No data available
Ecotoxicology Assessment Acute aquatic toxicity	: Very toxic to aquatic life.
Chronic aquatic toxicity	: Very toxic to aquatic life with long lasting effects.

Persistence and degradability Components;

67-56-1:

Biodegradability	: aerobic Result: Readily biodegradable. Biodegradation: 72 % Remarks: Readily biodeqradable
Biochemical Oxygen Demand (BOD)	: 600 - 1,120 mg/g
Chemical Oxygen Demand (COD)	: 1,420 mg/g
BOD/COD	: BOD: 600 - U20COD: 1420
Stability in water	: Hydrolysis: 91 % atl9 °C(72 h) Remarks: Hydrolyses on contact with water. Hydrolyses readily.

108-88-3:

Biodegradability	: Inoculum: Sewage Biodegradation: 100 % Remarks: Readily biodegradable

67-64-1:

Biodegradability	: Remarks: Readily biodegradable

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 20 mg/l Biodegradation: 74.30 %
Exposure time: 56 d GLP: yes
Remarks: Inherently biodegradable.

64742-89-8:

Biodegradability : Concentration: 49.2 mg/l Result: Readily biodegradable.
Biodegradation: 77 %
Testing period: 2 d
Exposure time: 28 d
GLP: yes

142-82-5:

Biodegradability : Primary biodegradation
Inoculum: activated sludge
Concentration: 100 mg/l
Biodegradation: 100%
Testing period: 2 d Exposure time: 25 d Remarks: Readily biodegradable

Bioaccumulative potential

Components:
67-56-1:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 1.0
Exposure time: 72 d Temperature: 20 °C Concentration: 5 mg/l
Remarks: This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Partition coefficient: n- : log Pow: -0.77
octanol/water

108-88-3:

Partition coefficient: n- : log Pow: 2.73
octanol/water

67-64-1:

Partition coefficient: n- : log Pow: -0.24
octanol/water

64742-49-0:

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

64742-89-8:

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

Mobility in soil

No data available

Other adverse effects

No data available

Product;
Regulation

Remarks	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances 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 NEXEO's Environmental Services Group at 800-637-7922.
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

I ATA (International Air Transport Association): UN1263, PAINT RELATED MATERIAL, 3, II, Flash Point:-20.00 °C(-4.00 °F)

IMDG (International Maritime Dangerous Goods): UN1263, PAINT RELATED MATERIAL, 3, II

DOT (Department of Transportation): UN1263, PAINT RELATED MATERIAL, 3, II

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable liquid, Carcinogen, Toxic by ingestion.
Toxic by skin absorption, Moderate skin irritant, Moderate eye irritant, Teratogen, Reproductive hazard, Mutagen

WHMIS Classification : B2: Flammable liquid
DIB: Toxic Material Causing Immediate and Serious Toxic Effects
D2A: Very Toxic Material Causing Other Toxic Effects D2B: Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (Ibsl
Toluene	108-88-3	1000	2856

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
Chronic Health Hazard
Acute Health Hazard

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 40.0009 % 108-88-3 Toluene 35.01 % 71-43-2 Benzene 0.0457 % 100-41-4 Ethylbenzene 0.0449 % 110-54-3 Hexane 0.002 % 91-20-3 Naphthalene 0.0002 % 98-82-8 Cumene 0.0001 %
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 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

67-56-1	Methanol	40.0009 %
108-88-3	Toluene	35.01 %
67-64-1	Acetone	15 %
110-82-7	Cyclohexane	0.25 %
71-43-2	Benzene	0.0457 %
100-41-4	Ethylbenzene	0.0449 %
1330-20-7	Mixed xylenes	0.013 %
98-82-8	Cumene	0.0001 %

Clean Water Act

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

108-88-3	Toluene	35.01 %
110-82-7	Cyclohexane	0.25 %
71-43-2	Benzene	0.0457 %
100-41-4	Ethylbenzene	0.0449 %
1330-20-7	Mixed xylenes	0.013 %
91-20-3	Naphthalene	0.0002 %

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

108-88-3	Toluene	35.01 %
110-82-7	Cyclohexane	0.25 %
71-43-2	Benzene	0.0457 %
100-41-4	Ethylbenzene	0.0449 %
1330-20-7	Mixed xylenes	0.013 %
91-20-3	Naphthalene	0.0002 %

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

108-88-3	Toluene	35.01 %

US State Regulations Massachusetts

Right To Know

67-56-1	Methanol	30 - 50 %
108-88-3	Toluene	30 - 50 %
67-64-1	Acetone	10 - 20 %
71-43-2	Benzene	0 - 0.1 %

Right To Know

67-56-1	Methanol	30 - 50 %
108-88-3	Toluene	30 - 50 %
67-64-1	Acetone	10 - 20 %
64742-49-0	Naphtha (pet), hydrotreated It	0 - 20 %
64742-89-8	Solvent naphtha (pet), Italiph.	0 - 20 %
68410-97-9	Distillates, pet, It dist hydrotreat process, low-boil	0 - 20 %
110-82-7	Cyclohexane	0.1 - 1 %
71-43-2	Benzene	0 - 0.1 %
100-41-4	Ethylbenzene	0 - 0.1 %
1330-20-7	Mixed xylenes	0 - 0.1 %

New Jersey Right To Know

67-56-1	Methanol	30 - 50 %
108-88-3	Toluene	30 - 50 %
67-64-1	Acetone	10 - 20 % 0
64742-49-0	Naphtha (pet), hydrotreated lt	- 20 % 0 -
64742-89-8	Solvent naphtha (pet), lt aliph.	20 % 0 - 20
68410-97-9	Distillates, pet, lt dist hydrotreat process, low-boil	%

California Prop 65

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

71-43-2	Benzene
100-41-4	Ethylbenzene
91-20-3	Naphthalene
98-82-8	Cumene

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

67-56-1	Methanol
108-88-3	Toluene
71-43-2	Benzene

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

Switzerland. New notified substances and declared preparations		y (positive listing) (The formulation contains substances listed on the Swiss Inventory)
United States TSCA Inventory	:	y (positive listing) (On TSCA Inventory)
Canadian Domestic Substances List (DSL)	.	y (positive listing) (All components of this product are on the Canadian DSL.)
Australia Inventory of Chemical Substances (AICS)		y (positive listing) (On the inventory, or in compliance with the inventory)
New Zealand. Inventory of Chemical Substances		n (Negative listing) (Not in compliance with the inventory)
Japan. ENCS - Existing and New Chemical		n (Negative listing)

	Substances Inventory		(Not in compliance with the inventory)
	Japan. ISHL - Inventory of Chemical Substances (METI)		n (Negative listing) (Not in compliance with the inventory)
	Korea. Korean Existing Chemicals Inventory (KECI)		y (positive listing) (On the inventory, or in compliance with the inventory)
	Philippines Inventory of Chemicals and Chemical Substances (PICCS)		y (positive listing) (On the inventory, or in compliance with the inventory)
	China. Inventory of Existing Chemical Substances in China (IECSC)		y (positive listing) (On the inventory, or in compliance with the inventory)

SECTION 16. OTHER INFORMATION

Further

HMIS III:

HEALTH	**2***
FLAMMABILITY	**3**
PHYSICAL HAZARD	**0**

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

information NFPA:

Flammability

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 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.

LegecyMSDS: 000000148128

Material number:
707948, 707692

Key or legend to abbreviations and acronyms used in the safety datasheet

ACGIH	American Conference of Gov-ernment 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
rrcfi EC50	trrective c-oncentraiion Effective Concentration 50%	MO A CI NUAtL NOEC	AkrArt/^HIA A r A rr A L AA^ 1 At <Al NO UDservaDie Aoverse triecr Level 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	Philipines 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 Reau-thorization 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 Compositon, Complex Reaction Products, and Biological Materials
< =	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50		Lethal Concentration 50%	