Substance key: 000000468470	Revision Date: 04/21/2020
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SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704-331-7000 **Information of the substance/preparation:** BU Oil & Mining Services Product Stewardship +1-704-331-7710 **Emergency tel. number:** +1 800-424-9300(CHEMTREC)

Trade name: **PHASETREAT 8612AP**
Material number: 248502

Chemical family: Mixture

Primary product use: Demulsifier

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids	:	Category 3
Skin corrosion	:	Category 1A
Serious eye damage	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system, Central nervous system)
Aspiration hazard	:	Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements :

Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. 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.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P363 Wash contaminated clothing 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.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Methanol	67-56-1	30 - 50
Hydrocarbons, C10, aromatics, >1% naphthalene	64742-94-5	5 - 10
Phosphoric acid	7664-38-2	5 - 10

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled : Move the victim to fresh air.
Give oxygen or artificial respiration if needed.
Get immediate medical advice/ attention.
Never give anything by mouth to an unconscious person.

In case of skin contact : In case of contact, immediately wash with soap and water for at least 15 minutes. Remove contaminated clothing and shoes while washing. Isolate contaminated clothing for cleaning or disposal. Do not reuse unless thoroughly cleaned. Dispose of contaminated leatherwear. Get immediate medical attention.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed : Get medical attention immediately.
Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).
No additional symptoms are known.

Notes to physician : Due to the corrosive nature of this material, swallowing may result in severe ulceration, inflammation, and possible perforation of the upper alimentary tract, with hemorrhage and fluid loss. Aspiration of this product during induced emesis can result in severe lung injury. Evacuation of stomach contents should be done by means least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a poison control center for additional treatment information.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Cool containers/tanks with water spray.

Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO2) Emits toxic and corrosive fumes under fire conditions. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.
Further information	:	Wear positive pressure self-contained breathing apparatus and full protective gear. Do not direct a solid stream of water or foam into hot burning pools; this may spread fire, cause frothing, and increase fire intensity. Containers can build up pressure if exposed to heat and/or fire. Vapors may form an explosive mixture with air. Vapors may travel to source of ignition and flash back. Use water spray to keep containers cool.
Special protective equipment for firefighters	:	Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Remove all spark producing devices or ignition sources. Wear proper personnel protective equipment. Using non-sparking tools collect as a liquid for recycling/disposal or absorb onto a suitable absorbant and secure in a suitable container. Collect any contaminated soils or cleaning waste in a suitable container for proper disposal. Absorbent materials such as dry sand, absorbent booms, and vermiculite may be used to keep material from entering drains, sewers, or streams.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Keep away from heat, sparks and open flames. - Avoid breathing vapors or contact with skin, eyes, and clothing.- Use only with adequate ventilation and proper protective eyewear, face shield, gloves and clothing. Wash thoroughly after handling. Keep container closed. Prevent a possible fire hazard by bonding and grounding or inert gas purge.

Store in a cool, dry, well-ventilated, fire-resistant location.
Avoid storage on wood floors.

Further information on storage conditions : Store in a cool, dry location away from heat, sparks and open flames.
Store in original container.
Keep container tightly closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methanol	67-56-1	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-1
		STEL	250 ppm 325 mg/m3	OSHA P0
		TWA	200 ppm 260 mg/m3	OSHA P0
Phosphoric acid	7664-38-2	TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		ST	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0
		STEL	3 mg/m3	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI

Engineering measures : Local ventilation recommended - mechanical ventilation may be used.

Personal protective equipment

Respiratory protection	:	If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.
Hand protection Remarks	:	Chemical resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol). However, please note that PVA degrades in water.
Eye protection	:	Tightly fitting safety goggles Face-shield
Skin and body protection	:	Wear suitable protective equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid
Colour	:	yellow
Odour	:	characteristic
Odour Threshold	:	not determined
pH	:	2 - 3 Concentration: 1 %
Freezing point	:	< 32 °F / 0 °C Information refers to the main component.
Boiling point	:	46.8 °F / 8.2 °C Data relate to solvent
Flash point	:	< 73 °F / 23 °C
Evaporation rate	:	not determined
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / upper flammability limit	:	not determined
Lower explosion limit / Lower	:	not determined

flammability limit		
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Density	:	0.94 - 0.98 g/cm3
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	not tested.
Viscosity		
Viscosity, dynamic	:	< 75 mPa.s
Viscosity, kinematic	:	not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	:	Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	:	not known
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact
Skin contact
Inhalation
Ingestion
Skin Absorption

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:

Methanol:

Acute oral toxicity : LD50 (Rat, male and female): 1,187 - 2,769 mg/kg
Method: Other
GLP: no
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): 87.5 mg/l
Exposure time: 6 h
Test atmosphere: vapour
Method: Other
GLP: no
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.

Phosphoric acid:

Acute oral toxicity : LD50 (Rat, female): approx. 2,600 mg/kg
Method: OECD Test Guideline 423
GLP: no

Acute inhalation toxicity : Remarks: Study not performed as the substance is corrosive.

Acute dermal toxicity : Remarks: Study not performed as the substance is corrosive.

Skin corrosion/irritation

Product:

Result: Corrosive
Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:

Methanol:

Species: Rabbit

Exposure time: <= 20 h
Method: Other
Result: No skin irritation
GLP: no

Hydrocarbons, C10, aromatics, >1% naphthalene:

Result: Repeated exposure may cause skin dryness or cracking.

Phosphoric acid:

Species: Rabbit
Exposure time: 24 h
Method: Other
Result: Causes burns.
GLP: no data available

Serious eye damage/eye irritation

Product:

Result: Corrosive
Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:

Methanol:

Species: Rabbit
Result: No eye irritation
Method: Other
GLP: no

Phosphoric acid:

Assessment: Risk of serious damage to eyes.
Remarks: Study not performed as the substance is corrosive.

Respiratory or skin sensitisation

Product:

Result: non-sensitizing
Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:

Methanol:

Test Type: Maximisation Test
Exposure routes: Dermal
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Not a skin sensitizer.

GLP: no

Assessment: Toxic if swallowed, in contact with skin or if inhaled.

Phosphoric acid:

Remarks: Study not performed as the substance is corrosive.

Assessment: Causes severe skin burns and eye damage.

Germ cell mutagenicity

Components:

Methanol:

Genotoxicity in vitro : Test Type: Micronucleus test
Test system: Chinese hamster lung cells
Concentration: 40 mg/ml
Method: Other
Result: negative
GLP: No information available.

Test Type: HGPRT assay
Test system: Chinese hamster lung cells
Concentration: 15,8 - 63,3 mg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: No information available.

Test Type: In vitro gene mutation study in bacteria
Test system: Salmonella typhimurium
Concentration: 5 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: Chromosome Aberration Test
Species: Mouse (male)
Strain: C57BL/6 x DBA/2
Application Route: Inhalation
Exposure time: 5 d, 6 h/day
Dose: 1,04 - 5,3 mg/l
Method: Other
Result: negative
GLP: No information available.

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Phosphoric acid:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 50 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Concentration: 112,5 - 450 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity

Components:

Methanol:

Species: Rat, (male and female)
Application Route: Inhalation
Exposure time: 24
Dose: 0,013 - 0,13 - 1,3 mg/l
Group: yes
Frequency of Treatment: 20 h/day
NOAEL: >= 1.3 mg/l
Method: OECD Test Guideline 453
GLP: No information available.

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Hydrocarbons, C10, aromatics, >1% naphthalene:

Carcinogenicity - Assessment : Suspected human carcinogens

Phosphoric acid:

Carcinogenicity - Assessment : No information available.

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
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	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.

Reproductive toxicity

Components:

Methanol:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: Inhalation
Dose: 0,013 - 0,13 - 1,3 mg/l
Duration of Single Treatment: 20 h
General Toxicity - Parent: NOAEC: 1.3 mg/l
General Toxicity F1: NOAEC: 0.13 mg/l
General Toxicity F2: NOAEC: 0.13 mg/l
Method: OECD Test Guideline 416
GLP: No information available.

Effects on foetal development : Test Type: Pre-natal
Species: Rat, female
Strain: Sprague-Dawley
Application Route: Inhalation
Dose: 0,27 - 1,33 - 6,65 mg/l
Duration of Single Treatment: 22.7 h
General Toxicity Maternal: NOAEC: 1.33 mg/l
Teratogenicity: NOAEC F1: 1.33 mg/l
Method: OECD Test Guideline 414
GLP: No information available.

Test Type: Pre-natal
Species: Rat
Strain: Long-Evans
Application Route: oral (gavage)
Dose: 1027 - 2054 - 4108 mg/kg
Frequency of Treatment: 1
General Toxicity Maternal: LOAEL: 1,027 mg/kg body weight
Teratogenicity: LOAEL F1: 1,027 mg/kg body weight
Method: OECD Test Guideline 414
GLP: No information available.

Reproductive toxicity - : No reproductive toxicity to be expected.

Assessment No teratogenic effects to be expected.

Phosphoric acid:

Effects on fertility : Test Type: One generation study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 0, 125, 250 and 500 mg/kg
Duration of Single Treatment: 42 - 54 d
General Toxicity F1: NOAEL: >= 500 mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes

Effects on foetal development : Test Type: Pre-natal
Species: Mouse, female
Strain: CD1
Application Route: oral (gavage)
Dose: 3,7 - 17,2 - 79,7 - 370 mg/kg
Duration of Single Treatment: 10 d
General Toxicity Maternal: NOAEL: >= 370 mg/kg body weight
Teratogenicity: NOAEL: >= 370 mg/kg body weight
Method: OECD Test Guideline 414
GLP: no
Remarks: By analogy with a product of similar composition

Test Type: Pre-natal
Species: Rat, female
Strain: wistar
Application Route: oral (gavage)
Dose: 4,1 - 19 - 88,3 - 410 mg/kg
Duration of Single Treatment: 10 d
General Toxicity Maternal: NOAEL: >= 410 mg/kg body weight
Teratogenicity: NOAEL: >= 410 mg/kg body weight
Method: OECD Test Guideline 414
GLP: no
Remarks: By analogy with a product of similar composition

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

STOT - single exposure

Components:

Methanol:

Target Organs: Eyes, Central nervous system
Assessment: Causes damage to organs.

Hydrocarbons, C10, aromatics, >1% naphthalene:

Target Organs: Central nervous system
Assessment: May cause drowsiness or dizziness.

Phosphoric acid:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

Methanol:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Phosphoric acid:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Methanol:

Species: Monkey, male
LOAEL: 2,340 mg/kg
Application Route: oral (gavage)
Exposure time: 3 d
Number of exposures: daily
Dose: 2340 mg/kg
Group: no data available
Method: Other
GLP: No information available.
Remarks: Significant toxicity observed in testing

Species: Rat, male and female
NOEL: 0.13 mg/l
LOAEL: 1.3 mg/l
Application Route: Inhalation
Test atmosphere: vapour
Exposure time: 12 m
Number of exposures: 20 h/day
Dose: 0,013 - 0,13 - 1,3 mg/l
Group: yes
Method: OECD Test Guideline 453
GLP: No information available.

Species: Rat, male and female
NOAEL: 6.66 mg/l
Application Route: Inhalation

Test atmosphere: vapour
Exposure time: 4 w
Number of exposures: 6 h/d, 5 d/wk
Dose: 0,663 - 2,65 - 6,63 mg/l
Group: yes
Method: OECD Test Guideline 412
GLP: No information available.

Application Route: Skin contact
Remarks: not tested.

Repeated dose toxicity - Assessment : Toxic if swallowed, in contact with skin or if inhaled.

Phosphoric acid:

Species: Rat, male and female
NOAEL: 250 mg/kg
Application Route: oral (gavage)
Exposure time: 42 d (m), 54 d (fem)
Number of exposures: daily
Dose: 125 - 250 - 500 mg/kg
Group: yes
Method: OECD Test Guideline 422
GLP: yes

Repeated dose toxicity - Assessment : Causes severe skin burns and eye damage.

Aspiration toxicity

Components:

Methanol:

No aspiration toxicity classification

Hydrocarbons, C10, aromatics, >1% naphthalene:

May be fatal if swallowed and enters airways.

Phosphoric acid:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the labelling (see section 2).

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Methanol:

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l End point: mortality Exposure time: 96 h Test Type: flow-through test Analytical monitoring: yes Method: EPA GLP: No information available.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 18,260 mg/l End point: Immobilization Exposure time: 96 h Test Type: semi-static test Analytical monitoring: no data available Method: OECD Test Guideline 202 GLP: No information available. Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (microalgae)): ca. 22,000 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test Analytical monitoring: no data available Method: OECD Test Guideline 201 GLP: No information available.
Toxicity to fish (Chronic toxicity)	:	NOEC (Pimephales promelas (fathead minnow)): 446.7 mg/l Exposure time: 28 d Method: Other GLP: no Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 208 mg/l End point: Reproduction rate Exposure time: 21 d Method: calculated GLP: no Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Toxicity to microorganisms	:	IC50 (activated sludge): > 1,000 mg/l End point: Bacteria toxicity (growth inhibition)

Exposure time: 3 h
Test Type: aquatic
Analytical monitoring: yes
Method: OECD Test Guideline 209
GLP: No information available.

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1 mg/cm2
Exposure time: 48 h
End point: mortality
Method: OECD Test Guideline 207
GLP: No information available.

NOEC (Folsomia candida): 10000 mg/kg dry weight (d.w.)
Exposure time: 28 d
End point: mortality
Method: Other
GLP: No information available.

Plant toxicity : IC50: ca. 41,000 mg/l
Exposure time: 3 d
End point: emergence
Species: Lactuca sativa (lettuce)
Analytical monitoring: no data available
Method: Other
GLP: no

Sediment toxicity : Remarks: Not applicable

Hydrocarbons, C10, aromatics, >1% naphthalene:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3 - 10 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - < 3 mg/l
End point: Biomass
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOELR (Oncorhynchus mykiss (rainbow trout)): 0.487 mg/l
Exposure time: 28 d
Method: Other

Remarks: Estimated value

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 0.851 mg/l
Exposure time: 21 d
Method: Other

Ecotoxicology Assessment

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

Phosphoric acid:

Toxicity to fish : LD50 (Lepomis macrochirus (Bluegill sunfish)): pH 3-3,3
End point: mortality
Exposure time: 96 h
Test Type: Other
Analytical monitoring: no
Method: Other
GLP: no data available

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

NOEC (Daphnia magna (Water flea)): 56 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to fish (Chronic toxicity)	:	Remarks: not required
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: not required
Toxicity to microorganisms	:	EC50 (activated sludge): > 1,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 209 GLP: yes
Plant toxicity	:	Remarks: Not applicable
Toxicity to terrestrial organisms	:	Remarks: Not applicable

Persistence and degradability

Components:

Methanol:

Biodegradability	:	aerobic Inoculum: activated sludge Concentration: 3 - 10 mg/l Biochemical Oxygen Demand (BOD) Result: Readily biodegradable. Biodegradation: 95 % Exposure time: 20 d Method: Closed Bottle test GLP: no aerobic Inoculum: activated sludge Concentration: 4 - 200 g/l Biochemical Oxygen Demand (BOD) Result: Readily biodegradable. Biodegradation: 82.7 % Exposure time: 5 d Method: Other GLP: no
Photodegradation	:	Rate constant: 9.32E-13 cm3/s Degradation (indirect photolysis): 50 % Degradation half life: 17.2 d GLP: no

Hydrocarbons, C10, aromatics, >1% naphthalene:

Biodegradability	:	aerobic Inoculum: activated sludge Result: Inherently biodegradable. Method: OECD Test Guideline 301F

Phosphoric acid:

Biodegradability	:	Remarks: Not applicable
Physico-chemical removability	:	Remarks: Can be eliminated from water by precipitation. Can be eliminated from water by flocculation.

Bioaccumulative potential

Components:

Methanol:

Bioaccumulation	:	Species: Leuciscus idus (Golden orfe) Bioconcentration factor (BCF): < 10 Exposure time: 72 h Method: Other GLP: No information available.
Partition coefficient: n-octanol/water	:	log Pow: -0.77 Method: No information available. GLP: No information available.

Phosphoric acid:

Bioaccumulation	:	Remarks: Does not bioaccumulate. Not relevant for inorganic substances
Partition coefficient: n-octanol/water	:	Remarks: Not applicable inorganic

Mobility in soil

Components:

Methanol:

Distribution among environmental compartments	:	Adsorption/Soil Medium: water - soil Koc: 1 Method: other (calculated)

Other adverse effects

Product:

Additional ecological information	:	no data available

Components:

Methanol:

Environmental fate and pathways	:	not available
Results of PBT and vPvB assessment	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
Additional ecological information	:	Do not allow to enter ground water, waterways or waste water.

Phosphoric acid:

Environmental fate and pathways	:	no data available
Results of PBT and vPvB assessment	:	The substance is not identified as a PBT or as a vPvB substance. Remarks: Not relevant for inorganic substances
Additional ecological information	:	Product must not be released into water without pre-treatment. Can be eliminated from water by flocculation. Neutralisation will reduce ecotoxic effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act	:	Yes -- If it becomes a waste as sold.
Waste Code	:	D001, D002
Waste from residues	:	Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

SECTION 14. TRANSPORT INFORMATION

DOT Regulation:

UN/NA-number:	UN 2924
Proper shipping name:	Flammable liquids, corrosive, n.o.s., mixture
Technical Name:	Solvent Naphtha Isopropanol
Primary hazard class:	3
Subsidiary hazard class:	8

Packing group: II
Reportable Quantity: 5,820.000 kg Xylene

Emergency Response Guide: 132

IATA

UN/ID number: UN 2924
Proper shipping name: Flammable liquid, corrosive, n.o.s., mixture
Hazard inducer(s): Solvent Naphtha
Isopropanol

Primary risk: 3
Subsidiary risk: 8
Packing group: II
Remarks: Shipment permitted

IMDG

UN no.: UN 2924
Proper shipping name: Flammable liquid, corrosive, n.o.s., mixture
Hazard inducer(s): Solvent Naphtha
Isopropanol

Primary risk: 3
Subsidiary risk: 8
Packing group: II
EmS: F-E S-C

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)
Methanol	67-56-1	5000	11363
Phosphoric acid	7664-38-2	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.
A characteristic waste RQ of 100 lbs applies to this product in a waste form: D001, D002

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)
Aspiration hazard

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

Methanol	67-56-1	>= 30 - < 50 %

Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%., This product is an oil in the context of the USA Clean Water Act (CWA). Spills to USA surface waters, or to watercourse or sewer waters that cause a visible sheen must be reported to the National Response Center.

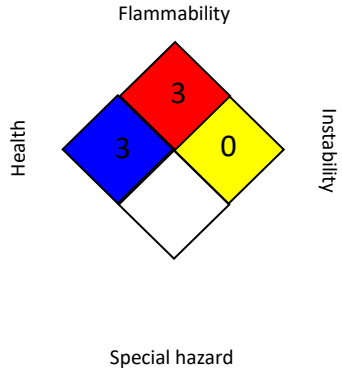
The components of this product are reported in the following inventories:

TSCA : All components are compliant with the TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday

OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Observe all necessary precautions for handling flammable substances. Keep away from sources of heat and ignition. Smoking should be prohibited where material is being handled. Electrical grounding of equipment is required.

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