

TERMIX® 5910

Version SDS Number: Date of last issue: 09/29/2016 Revision Date: 400001004144 1.2 09/26/2017 Date of first issue: 10/21/2015

SECTION 1. IDENTIFICATION

Product name : TERMIX® 5910

Manufacturer or supplier's details

Company name of supplier

: Huntsman International LLC

Address

P.O. Box 4980 The Woodlands,

TX 77387

United States of America (USA)

Telephone : TechInfo: (281) 719-7780

E-mail address of person responsible for the SDS

: MSDS@huntsman.com

Emergency telephone number : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Agrochemical

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Dermal) : Category 4

Serious eye damage : Category 1

Carcinogenicity : Category 2

Acute aquatic toxicity : Category 2

Chronic aquatic toxicity : Category 3

GHS label elements

Hazard pictograms







Signal word : Danger

: H312 Harmful in contact with skin. Hazard statements

> H318 Causes serious eye damage. H351 Suspected of causing cancer.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read



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and understood.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel

unwell

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.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P363 Wash contaminated clothing before reuse.

Storage:

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

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Formaldehyde, polymer with methyloxirane and	37523-33-4	30 - 60
4-nonylphenol		
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	13 - 30
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	7 - 13
propylene carbonate	108-32-7	7 - 13
Solvent naphtha (petroleum), light arom.	64742-95-6	7 - 13
Alcohols, C11-14-iso-, C13-rich	68526-86-3	3 - 7
naphthalene	91-20-3	0.1 - 1

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.



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In case of skin contact : Take victim immediately to hospital.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

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.

Most important symptoms and effects, both acute and

delayed

: None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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

: No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation.

In case of inadequate ventilation wear respiratory protection.

Environmental precautions

: Prevent product from entering drains.

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 : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

fire and explosion

Advice on protection against : Normal measures for preventive fire protection.

Advice on safe handling : 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.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage

: 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.

Further information on

storage stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
naphthalene	91-20-3	TWA	10 ppm 50 mg/m3	OSHA Z-1
		TWA	10 ppm	ACGIH

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.



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Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment

indicates this is necessary.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

Hand protection

Remarks : Impervious gloves

The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

danger of cuts, abrasion, and the contact time.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Ensure that eyewash stations and safety showers are close

to the workstation location.

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 : amber

Odour : hydrocarbon-like

Odour Threshold : No data is available on the product itself.

pH : 5.8

Melting point : -28.89 °C

Boiling point : 88 °C

Flash point : > 148 °C

Method: closed cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.



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Flammability (liquids) : No data is available on the product itself.

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Vapour pressure : 0.214613 hPa (40 °C)

0.142631 hPa (35 °C)

0.95976 hPa (60 °C)

Relative vapour density : No data is available on the product itself.

Relative density : 0.99

Density : No data is available on the product itself.

Solubility(ies)

Water solubility : No data is available on the product itself.

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Thermal decomposition : No data is available on the product itself.

Self-Accelerating

decomposition temperature

(SADT)

No data is available on the product itself.

Viscosity

Viscosity, kinematic : 78 mm2/s (40 °C)

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Particle size : No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous : No decomposition if stored and applied as directed.

reactions

Conditions to avoid : No data available

Hazardous decomposition : Carbon dioxide (CO2) products : Carbon monoxide



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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : No data is available on the product itself.

exposure

Acute toxicity

Acute oral toxicity - Product : LD50 (Rat): 2,000 - 5,000 mg/kg

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Acute inhalation toxicity : LC50 (Rat): > 1600 mg/m3

Exposure time: 4 h

Test atmosphere: dust/mist Method: OECD Test Guideline 403

Alcohols, C11-14-iso-, C13-rich:

Acute inhalation toxicity LC50 (Rat, male and female): > 12.2 mg/l

> Exposure time: 6 h Test atmosphere: vapour

Method: OECD Test Guideline 403

naphthalene:

Acute inhalation toxicity : LC50 (Rat, male and female): > 0.4 mg/l

Exposure time: 4 h Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute

inhalation toxicity

Acute dermal toxicity -

Product

: LD50 (Rabbit): 1,000 - 2,000 mg/kg

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Components:

Formaldehyde, polymer with methyloxirane and 4-nonylphenol:

Assessment: Mild skin irritant Result: Mild skin irritation

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404 Result: Normally reversible injuries

Alcohols, C11-14-iso-, C13-rich, ethoxylated:



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Species: Rat

Assessment: No skin irritation Method: OECD Test Guideline 404 Result: Normally reversible injuries

GLP: yes

propylene carbonate: Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

Alcohols, C11-14-iso-, C13-rich:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Mild skin irritant

naphthalene: Species: Rabbit

Method: OECD Test Guideline 404

Remarks: slight irritation

Serious eye damage/eye irritation

Components:

Formaldehyde, polymer with methyloxirane and 4-nonylphenol:

Result: Eye irritation

Assessment: Irritating to eyes.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species: Rabbit Result: Corrosive

Method: OECD Test Guideline 405

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species: Rabbit

Result: Irreversible effects on the eye Assessment: Severe eye irritation Method: OECD Test Guideline 405

propylene carbonate: Species: Rabbit Result: Eye irritation

Assessment: Irritating to eyes. Method: OPPTS 870.2400

Alcohols, C11-14-iso-, C13-rich:

Species: Rabbit

Result: Irritation to eyes, reversing within 7 days

Assessment: No eye irritation Method: OECD Test Guideline 405

naphthalene: Species: Rabbit

Method: OECD Test Guideline 405

Remarks: slight irritation



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Respiratory or skin sensitisation

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Exposure routes: Skin Species: Humans

Result: Does not cause skin sensitisation.

Exposure routes: Skin Species: Guinea pig

Method: Directive 67/548/EEC, Annex V, B.6. Result: Does not cause skin sensitisation.

propylene carbonate: Exposure routes: Skin Species: Humans

Result: Does not cause skin sensitisation.

Solvent naphtha (petroleum), light arom.:

Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

Alcohols, C11-14-iso-, C13-rich:

Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

naphthalene:

Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

Assessment: No data available

Germ cell mutagenicity

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Genotoxicity in vitro : Concentration: .5 - 100 ug/plate

Metabolic activation: with and without metabolic activation

Result: negative

Concentration: .025 - 5 µg/L

Metabolic activation: with and without metabolic activation

Result: negative



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Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Genotoxicity in vitro : Concentration: 5 - 50 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Concentration: .5 - 100 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Concentration: .0001 - .1 µg/L

Metabolic activation: Metabolic activation Method: OECD Test Guideline 482

Result: negative

Concentration: 2000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

propylene carbonate:

Genotoxicity in vitro : Concentration: 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Metabolic activation: negative Method: OECD Test Guideline 482

Result: negative

Solvent naphtha (petroleum), light arom.:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 479

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Alcohols, C11-14-iso-, C13-rich:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476



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Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

naphthalene:

Genotoxicity in vitro : Concentration: 30 µg/L

Metabolic activation: Metabolic activation Method: OECD Test Guideline 473

Result: positive

Concentration: 40 µg/L Metabolic activation: negative Method: OECD Test Guideline 476

Result: negative

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Genotoxicity in vivo : Cell type: Germ + somatic

Application Route: Intraperitoneal injection

Dose: 50 mg/kg Result: negative

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Genotoxicity in vivo : Application Route: Intraperitoneal injection

Dose: 100 mg/kg

Method: OECD Test Guideline 474

Result: negative

propylene carbonate:

Genotoxicity in vivo : Application Route: Intraperitoneal injection

Dose: 1666 mg/kg

Method: OECD Test Guideline 474

Result: negative

Solvent naphtha (petroleum), light arom.:

Genotoxicity in vivo : Application Route: Inhalation

Exposure time: 5 d

Method: OECD Test Guideline 475

Result: negative

naphthalene:

Genotoxicity in vivo : Cell type: Somatic

Application Route: Oral Exposure time: 1 d Dose: 1600 mg/kg

Method: OECD Test Guideline 486

Result: negative

Application Route: Intraperitoneal injection

Dose: 5000 mg/kg

Method: OECD Test Guideline 474

Result: negative



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Carcinogenicity

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species: Rat, (male and female)

Application Route: Oral Exposure time: 24 month(s)

Dose: 500 mg/kg Result: negative

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species: Rat, (male and female)

Application Route: Oral Exposure time: 24 month(s)

Dose: 500 mg/kg Result: negative

propylene carbonate: Species: Mouse, (male) Application Route: Dermal Exposure time: 104 weeks Dose: 1500 - 2000 mg/kg

Frequency of Treatment: 2 daily Method: OECD Test Guideline 451

Result: negative

naphthalene:

Species: Rat, (male and female) Application Route: Inhalation Exposure time: 105 weeks

Dose: 10 ppm

Frequency of Treatment: 6 daily

Result: positive

Target Organs: Nasal inner lining

Components:

naphthalene:

Carcinogenicity - : Suspected human carcinogens

Assessment

IARC Group 2B: Possibly carcinogenic to humans

naphthalene

Group 2B: Possibly carcinogenic to humans

ACGIH Confirmed animal carcinogen with unknown relevance to

humans

Solvent naphtha (petroleum), light arom.

naphthalene

OSHANo component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or



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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.

Reasonably anticipated to be a human carcinogen

naphthalene

Reproductive toxicity

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Effects on fertility : Species: Rat, male and female

Application Route: Dermal

Target Organs: Heart, Liver, Lungs, Kidney, Testes

Method: OECD Test Guideline 416

Result: Animal testing did not show any effects on fertility.

Species: Rat, male and female

Application Route: Oral Target Organs: Liver

Result: Animal testing did not show any effects on fertility.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species: Rat, male and female

Application Route: Oral Target Organs: Liver Result: negative

propylene carbonate:

Species: Rat

Application Route: Oral

Method: OECD Test Guideline 414

Result: negative

Solvent naphtha (petroleum), light arom.:

Species: Rat, male and female Application Route: Inhalation

Result: No effects on fertility and early embryonic

development were detected.

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Effects on foetal : Species: Rat, male and female development Application Route: Dermal

Result: No teratogenic effects

Species: Rat

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

> 250 mg/kg body weight Result: No teratogenic effects



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Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species: Rat, male and female Application Route: Dermal Result: No teratogenic effects

propylene carbonate:

Species: Rat, male and female

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1,000 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Solvent naphtha (petroleum), light arom.:

Species: Rat, female

Application Route: Inhalation

General Toxicity Maternal: No observed adverse effect level:

100 ppm

Result: No teratogenic effects

Alcohols, C11-14-iso-, C13-rich:

Species: Rat, female Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

500 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat, female Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

ca. 1,000 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects

naphthalene:

Species: Rat, female Application Route: Oral

General Toxicity Maternal: Lowest observed adverse effect

level: < 50 mg/kg body weight Method: OECD Test Guideline 414

Result: Teratogenic effects

Reproductive toxicity -

Assessment

: No data available

STOT - single exposure

Components:

Solvent naphtha (petroleum), light arom.: Exposure routes: inhalation (vapour)

Target Organs: Respiratory Tract, Narcotic effects

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



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STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species: Rat, male and female

NOAEL: 519 mg/kg/d Application Route: Ingestion Exposure time: 504 h Method: Subacute toxicity

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species: Rat, male and female

NOAEL: 110 mg/kg/d Application Route: Ingestion Exposure time: 2,160 h Method: Subchronic toxicity

propylene carbonate:

Species: Rat, male and female NOEC: > 5000 mg/kg, 100 mg/m3 Application Route: Ingestion Test atmosphere: dust/mist Exposure time: 2,232 h Number of exposures: 6 h

Method: OECD Test Guideline 413

Solvent naphtha (petroleum), light arom.:

Species: Rat

LOEC: 353 - 1537 ppm Test atmosphere: vapour Exposure time: 13 Weeks

Alcohols, C11-14-iso-, C13-rich:

Species: Rat, male NOAEL: 130 mg/kg

Application Route: Ingestion Exposure time: 336 h Number of exposures: 7 d Method: Subacute toxicity

Repeated dose toxicity -

: No data available

Assessment

Aspiration toxicity

Components:



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Solvent naphtha (petroleum), light arom.: May be fatal if swallowed and enters airways.

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1.3 mg/l

Exposure time: 96 h
Test substance: Fresh water
Method: OECD Test Guideline 203

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.96 mg/l

Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 203

propylene carbonate:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 1,000 mg/l

Exposure time: 96 h
Test Type: semi-static test



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Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.1.

Remarks: No-observed-effect level

Solvent naphtha (petroleum), light arom.:

: LL50 (Oncorhynchus mykiss (rainbow trout)): 9.22 mg/l Toxicity to fish

Exposure time: 96 h

Method: OECD Test Guideline 203

Alcohols, C11-14-iso-, C13-rich:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.42 mg/l

> Exposure time: 96 h Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 203

naphthalene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.6 mg/l

Exposure time: 96 h

Test Type: flow-through test Test substance: Fresh water Method: OECD Test Guideline 203

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.9 mg/l

Exposure time: 48 h aquatic invertebrates

Test Type: static test

Test substance: Fresh water

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.46 mg/l

aquatic invertebrates Exposure time: 48 h

Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 202

propylene carbonate:

Toxicity to daphnia and other

: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h aquatic invertebrates

Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 202 Remarks: No-observed-effect level

Solvent naphtha (petroleum), light arom.:

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): 3.2 mg/l

aquatic invertebrates Exposure time: 48 h

Method: OECD Test Guideline 202

Alcohols, C11-14-iso-, C13-rich:

Toxicity to daphnia and other EL50: 0.71 mg/l

aquatic invertebrates Exposure time: 48 h Test Type: static test

Test substance: Fresh water



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Method: Aquatic Invertebrate Acute Toxicity Test, Freshwater

Daphnids

naphthalene:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 2.16 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to algae : ErC50 (Algae general): > 0.1 - 1 mg/l

Exposure time: 72 h
Test Type: static test
Test substance: Fresh water

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 0.282 mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

propylene carbonate:

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): > 929 mg/l

Exposure time: 72 h
Test Type: static test
Test substance: Fresh water

Method: OECD Test Guideline 201

ErC50 (Desmodesmus subspicatus (green algae)): > 900 mg/l

Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

Solvent naphtha (petroleum), light arom.:

Toxicity to algae : ErL50 (Selenastrum capricornutum (green algae)): 7.9 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Alcohols, C11-14-iso-, C13-rich:

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 3.2 mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

M-Factor (Acute aquatic : 1

toxicity)

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

M-Factor (Acute aquatic : 1



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toxicity)

Alcohols, C11-14-iso-, C13-rich: M-Factor (Acute aquatic : 1

toxicity)

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to fish (Chronic : NOEC (Pimephales promelas (fathead minnow)): 0.88 mg/l

toxicity) Exposure time: 28 d

Test substance: Fresh water Method: OECD Test Guideline 210

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to fish (Chronic : EC20 (Pimephales promelas (fathead minnow)): 0.95 mg/l

toxicity) Exposure time: 30 d

Test substance: Fresh water

Alcohols, C11-14-iso-, C13-rich:

Toxicity to fish (Chronic : NOEC: Calculation method 0.047 mg/l

toxicity) Exposure time: 30 d

Test substance: Fresh water

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to daphnia and other : EC10 (Daphnia magna (Water flea)): 0.355 mg/l

aquatic invertebrates Exposure time: 21 d
(Chronic toxicity) Test substance: Fresh water

Method: OFCD Test Cuideline 3

Method: OECD Test Guideline 211

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to daphnia and other : EC20 (Daphnia magna (Water flea)): 0.5 mg/l

aquatic invertebrates Exposure time: 21 d (Chronic toxicity) Test substance: Fresh water

Alcohols, C11-14-iso-, C13-rich:

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): Calculation method

aquatic invertebrates 0.058 mg/l

(Chronic toxicity) Exposure time: 16 d

Test substance: Fresh water

M-Factor (Chronic aquatic

toxicity)

: No data available

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10 g/l

Exposure time: 16.9 h
Test Type: static test
Test substance: Fresh water
Method: DIN 38 412 Part 8

Alcohols, C11-14-iso-, C13-rich, ethoxylated:



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Toxicity to microorganisms : EC50 (activated sludge): 140 mg/l

Exposure time: 3 h
Test Type: static test

Test substance: Fresh water

propylene carbonate:

Toxicity to microorganisms : EC50 (Pseudomonas putida): 25,619 mg/l

Exposure time: 16 h Test Type: static test Test substance: Fresh water Method: DIN 38 412 Part 8

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to soil dwelling : LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg

organisms Exposure time: 336 h

Alcohols, C11-14-iso-, C13-rich:

Toxicity to soil dwelling : EC50: 128.32 mg/kg organisms : Exposure time: 336 h

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Plant toxicity : NOEC: >= 100 mg/kg

Exposure time: 456 h Test substance: Natural

Method: Terrestrial Plants Test: Seedling Emergence and

Seedling Growth Test

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Plant toxicity : NOEC: >= 100 mg/kg

Exposure time: 408 h

Method: Terrestrial Plants Test: Seedling Emergence and

Seedling Growth Test

Sediment toxicity : No data available

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to terrestrial : EC50: 360 mg/kg
organisms Exposure time: 72 h

Test substance: Natural

Ecotoxicology Assessment

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Acute aquatic toxicity : Toxic to aquatic life.

Alcohols, C11-14-iso-, C13-rich:

Acute aquatic toxicity : Very toxic to aquatic life.

Components:



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Alcohols, C11-14-iso-, C13-rich, ethoxylated:

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

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

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

Solvent naphtha (petroleum), light arom.:

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

Alcohols, C11-14-iso-, C13-rich:

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

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 100 % Exposure time: 28 d

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Biodegradability : Inoculum: Domestic sewage

Result: Readily biodegradable.

Biodegradation: 73 % Exposure time: 28 d

propylene carbonate:

Biodegradability : Concentration: 20 mg/l

Result: Readily biodegradable. Biodegradation: 83.5 % Exposure time: 29 d

Method: OECD Test Guideline 301B

Solvent naphtha (petroleum), light arom.:

Biodegradability : Result: Readily biodegradable.

Biodegradation: > 60 % Exposure time: 28 d

Alcohols, C11-14-iso-, C13-rich:

Biodegradability : Inoculum: activated sludge

Concentration: 100 mg/l Result: Readily biodegradable. Biodegradation: 60.6 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

naphthalene:

Biodegradability : Inoculum: activated sludge

Result: Inherently biodegradable.

Biodegradation: 2 %



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Exposure time: 28 d

Method: Inherent Biodegradability: Modified MITI Test (II)

Components:

Solvent naphtha (petroleum), light arom.: Biochemical Oxygen : 190 mg/l

Demand (BOD)

Components:

Solvent naphtha (petroleum), light arom.: Chemical Oxygen Demand : 440 mg/l

(COD)

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical

removability

: No data available

Components:

Alcohols, C11-14-iso-, C13-rich:

Stability in water : Method: No information available.

Photodegradation : No data available

Impact on Sewage

Treatment

: No data available

Bioaccumulative potential

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)

Bioconcentration factor (BCF): 12.7

Exposure time: 3 d

Test substance: Fresh water Method: flow-through test

Remarks: Does not bioaccumulate.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 310

Exposure time: 2 h

Test substance: Fresh water

Method: Bioaccumulation: Static Fish Test Remarks: Does not bioaccumulate.

Alcohols, C11-14-iso-, C13-rich:



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Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 45

Exposure time: 10 d

Test substance: Fresh water Method: flow-through test

Species: Oncorhynchus mykiss (rainbow trout)

Exposure time: 14 d

Test substance: Fresh water Method: semi-static test

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Partition coefficient: n- : log Pow: 4.08 - 4.98

octanol/water

propylene carbonate:

Partition coefficient: n- : log Pow: -0.5 (20 °C)

octanol/water

Alcohols, C11-14-iso-, C13-rich:

Partition coefficient: n- : log Pow: 5.4 (25 °C)

octanol/water pH: 7

Method: OECD Test Guideline 117

naphthalene:

Partition coefficient: n- : log Pow: 3.4 (25 °C)

octanol/water pH: 7.5

Method: OECD Test Guideline 107

Mobility in soil

Mobility : No data available

Components:

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Distribution among : Koc: 13417.89 - 34437.29

environmental compartments Alcohols, C11-14-iso-, C13-rich:

Distribution among : Koc: 505.8

environmental compartments

Stability in soil : No data available

Other adverse effects

Environmental fate and

: No data available

pathways

Results of PBT and vPvB

: No data available

assessment

Endocrine disrupting

potential

: No data available

Adsorbed organic bound : No data available



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halogens (AOX)

Hazardous to the ozone layer

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 - Product

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

Global warming potential

(GWP)

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA

Not regulated as dangerous goods

IMDG

Not regulated as dangerous goods

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

Not applicable for product as supplied.

National Regulations

DOT Classification



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Not regulated as dangerous goods

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ	
		(lbs)	(lbs)	
naphthalene	91-20-3	100	*	

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)

Serious eye damage or eye irritation

Carcinogenicity

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

naphthalene 91-20-3 0.794 %

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

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

WARNING: This product can expose you to chemicals including naphthalene, ethylene oxide, methyloxirane, which is/are known to the State of California to cause cancer, and ethylene oxide, 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:

CH INV : The formulation contains substances listed on the Swiss

Inventory, On the inventory, or in compliance with the

inventory

DSL : All components of this product are on the Canadian DSL AICS : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory ENCS : Not in compliance with the inventory

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

PICCS : Not in compliance with the inventory IECSC : Not in compliance with the inventory TCSI : Not in compliance with the inventory

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

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.



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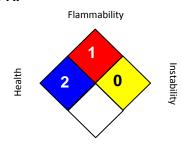
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA:



Special hazard.

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Revision Date : 09/26/2017

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1

Limits for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average OSHA Z-1 / TWA : 8-hour time weighted average

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IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.



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