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## **SAFETY DATA SHEET**

## 1. Identification

Product identifier: 323B FOAM & FABRIC ADHESIVE - 5 GAL

Other means of identification

**SDS number:** RE1000002667

Recommended restrictions

Product use: Adhesive

Restrictions on use: Not known.

#### Manufacturer/Importer/Distributor Information

#### Manufacturer

Company Name: Camie-Campbell, Inc. Address: 1000 INTEGRAM DRIVE

PACIFIC, MO 63069

Telephone: 800-325-9572

Fax:

Emergency telephone number: 1-866-836-8855

## 2. Hazard(s) identification

#### **Hazard Classification**

### **Physical Hazards**

Flammable liquids Category 2

**Health Hazards** 

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A
Toxic to reproduction Category 2
Specific Target Organ Toxicity - Category 3<sup>1</sup>

Single Exposure

Specific Target Organ Toxicity - Category 2

Repeated Exposure

Aspiration Hazard Category 1

**Target Organs** 

Narcotic effect.

## **Environmental Hazards**

Acute hazards to the aquatic Category 2

environment

Chronic hazards to the aquatic Category 2

environment

#### **Label Elements**

## **Hazard Symbol:**

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Signal Word: Danger

**Hazard Statement:** Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

Precautionary Statements

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep container tightly closed. Ground and bond

container and receiving equipment. Use explosion-proof

[electrical/ventilating/lighting/#] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do

not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the

environment.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for

breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor/# Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing. In case of fire: Use# to

extinguish. Collect spillage.

Storage: Store in a well-ventilated place. Keep cool. Store locked up. Keep container

tightly closed.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and

vapor. May cause flash fire or explosion.

## 3. Composition/information on ingredients



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#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Naphtha (petroleum), hydrotreated light	64742-49-0	50 - <100%
Hexane	110-54-3	25 - <50%
2-Propanone	67-64-1	20 - <50%
Cyclohexane	110-82-7	1 - <5%
Phenol, 4-nonyl-, branched	84852-15-3	0.01 - <1%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

Ingestion: Rinse mouth. Call a physician or poison control center immediately. Never

give liquid to an unconscious person. If vomiting occurs, keep head low so

that stomach content doesn't get into the lungs.

**Inhalation:** Move to fresh air.

Skin Contact: Take off immediately all contaminated clothing. Immediately flush with

plenty of water for at least 15 minutes while removing contaminated

clothing and shoes. Wash contaminated clothing before reuse. Get medical

attention.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

**Hazards:** No data available.

Indication of immediate medical attention and special treatment needed

**Treatment:** No data available.

## 5. Fire-fighting measures

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Water may be

ineffective in fighting the fire. Fight fire from a protected location. Move

containers from fire area if you can do so without risk.

## Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

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

Specific hazards arising from

the chemical:

Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of

vapors or gases to explosive concentrations.



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#### Special protective equipment and precautions for firefighters

Special fire fighting procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. In case of leakage, eliminate all ignition sources.

**Notification Procedures:** 

Prevent entry into waterways, sewer, basements or confined areas. Stop

the flow of material, if this is without risk.

**Environmental Precautions:** 

Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so. Avoid release to the environment.

## 7. Handling and storage

Precautions for safe handling:

Wash hands thoroughly after handling. Avoid contact with eyes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take precautionary measures against static discharges. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with skin.

Conditions for safe storage, including any incompatibilities:

Store locked up. Store in a well-ventilated place. Store in a cool place.

## 8. Exposure controls/personal protection

### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Lin	nit Values	Source
Naphtha (petroleum), hydrotreated light	PEL	100 ppm	400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
•	REL	100 ppm	400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	100 ppm	400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Hexane	TWA	50 ppm	180 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	500 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)



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	REL	50 ppm	180 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	50 ppm		US. ACGIH Threshold Limit Values (2008)
2-Propanone	STEL	1,000 ppm	2,400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL		2,400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	250 ppm		US. ACGIH Threshold Limit Values (03 2015)
	TWA	750 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	500 ppm		US. ACGIH Threshold Limit Values (03 2015)
	REL	250 ppm	590 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Cyclohexane	TWA	100 ppm		US. ACGIH Threshold Limit Values (2008)
	TWA	300 ppm	1,050 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	300 ppm	1,050 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	300 ppm	1,050 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Talc (Mg3H2(SiO3)4) - Respirable fraction.	TWA		2 mg/m3	US. ACGIH Threshold Limit Values (2008)
Talc (Mg3H2(SiO3)4) - Respirable.	REL		2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Talc (Mg3H2(SiO3)4) - Respirable dust.	TWA		2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Talc (Mg3H2(SiO3)4)	TWA		20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Talc (Mg3H2(SiO3)4) - Respirable.	TWA		2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA		0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Benzene	REL	0.1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	1 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	25 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	STEL	1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	0.5 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	5 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	1 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)
	STEL	2.5 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)
	OSHA_AC T	0.5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)
	TWA	10 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	50 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
Heptane	TWA	400 ppm	1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	85 ppm	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	500 ppm		US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	500 ppm	2,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	400 ppm		US. ACGIH Threshold Limit Values (02 2012)
	STEL	500 ppm		US. ACGIH Threshold Limit Values (02 2012)



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	Ceil_Time	440 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Phenol	TWA	5 ppm		US. ACGIH Threshold Limit Values (2008)
THORE	REL	5 ppm	19 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	Ceil_Time	15.6 ppm	60 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5 ppm	19 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	5 ppm	19 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Benzene, ethenyl-	TWA	20 ppm		US. ACGIH Threshold Limit Values (2008)
,	STEL	40 ppm		US. ACGIH Threshold Limit Values (2008)
	REL	50 ppm	215 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	100 ppm	425 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	50 ppm	215 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	100 ppm	425 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	Ceiling	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	600 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	TWA	2 ppm		US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values (03 2018)
Benzene, methyl-	STEL	150 ppm	560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	100 ppm	375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	100 ppm	375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	TWA	20 ppm		US. ACGIH Threshold Limit Values (2008)
	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	STEL	150 ppm	560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Benzene, ethyl-	STEL	125 ppm	545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	125 ppm	545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	20 ppm		US. ACGIH Threshold Limit Values (12 2010)

## **Biological Limit Values**

Chemical Identity	Exposure Limit Values	Source
Hexane (2,5-Hexanedion, without hydrolysis: Sampling time: End of shift.)	0.5 mg/l (Urine)	ACGIH BEL (03 2018)
2-Propanone (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	ACGIH BEL (03 2015)
Benzene (t,t-Muconic acid: Sampling time: End of shift.)	500 μg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.)	25 μg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Phenol (Phenol with hydrolysis: Sampling time: End of shift.)	250 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene, ethenyl- (Mandelic acid plus phenylglyoxylic acid:	400 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Sampling time: End of shift.)	•	
Benzene, ethenyl- (styrene: Sampling time: End of shift.)	40 μg/l (Urine)	ACGIH BEL (03 2015)



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Benzene, methyl- (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL (03 2013)
Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL (03 2013)
Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)	0.15 g/g (Creatinine in urine)	ACGIH BEL (02 2014)

Appropriate Engineering

No data available.

Controls

## Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Good general

ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels

to an acceptable level. Use explosion-proof ventilation equipment.

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

**Skin Protection** 

**Hand Protection:** No data available.

Other: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear,

and protective clothing appropriate for the risk of exposure. Contact health

and safety professional or manufacturer for specific information.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

**Hygiene measures:** Observe good industrial hygiene practices. Avoid contact with eyes. When

using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands

before breaks and immediately after handling the product.

## 9. Physical and chemical properties

#### **Appearance**

Physical state: liquid Form: liquid

Color: No data available. Odor: No data available. Odor threshold: No data available. pH: No data available. Melting point/freezing point: No data available. Initial boiling point and boiling range: estimated > 63.67 °C Flash Point: estimated > 17.8 °C **Evaporation rate:** No data available. Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits



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Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

Vapor pressure:

No data available.

Vapor density:No data available.Density:No data available.Relative density:No data available.

Solubility(ies)

Solubility in water:

Solubility (other):

No data available.

No data available.

No data available.

No data available.

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.

## 10. Stability and reactivity

**Reactivity:** No data available.

**Chemical Stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Heat, sparks, flames.

Incompatible Materials: No data available.

**Hazardous Decomposition** 

**Products:** 

No data available.

## 11. Toxicological information

## Information on likely routes of exposure

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

## Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** No data available.

**Skin Contact:** No data available.



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**Eye contact:** No data available.

**Ingestion:** No data available.

## Information on toxicological effects

## Acute toxicity (list all possible routes of exposure)

Oral

**Product:** Not classified for acute toxicity based on available data.

Specified substance(s):

Naphtha (petroleum), hydrotreated light

LD 50 (Rat): > 5,000 mg/kg

Hexane LD 50: > 2,000 mg/kg

2-Propanone LD 50 (Rat): 5,800 mg/kg

Cyclohexane LD 50 (Rat): > 5,000 mg/kg

Phenol, 4-nonyl-,

branched

LD 50 (Rat): 1,246 mg/kg

Dermal

**Product:** Not classified for acute toxicity based on available data.

Specified substance(s):

Naphtha (petroleum),

hydrotreated light

LD 50 (Rabbit): > 3,750 mg/kg

Hexane LD 50 (Rabbit): > 2,000 mg/kg

2-Propanone LD 50 (Rabbit): > 7,426 mg/kg

Cyclohexane LD 50 (Rabbit): > 2,000 mg/kg

Phenol, 4-nonyl-,

branched

LC 50: > 2,000 mg/kg

Inhalation

**Product:** Not classified for acute toxicity based on available data.

Specified substance(s):

Naphtha (petroleum), LOAEL (Human): 2,400 mg/m3 hydrotreated light LC 50 (Rat): > 7,630 mg/m3

LC 50: > 5 mg/l

Hexane LC 50 (Rat): > 31.86 mg/l

LC 50: > 5 mg/l

2-Propanone LC 50 (Rat): 50.1 mg/l

LC 50: > 5 mg/l

Cyclohexane LC 50 (Rat): > 32,880 mg/m3

Phenol, 4-nonyl-, LC 50: > 5 mg/l

branched LC 50: > 20 mg/l SDS\_US - RE1000002667



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Repeated dose toxicity

**Product:** No data available.

Specified substance(s):

Naphtha (petroleum), LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg Oral Readhydrotreated light across based on grouping of substances (category approach), Key study

NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal

Experimental result, Supporting study

NOAEL (Rat(Female, Male), Inhalation): 10,000 mg/m3 Inhalation

Experimental result, Key study

NOAEL (Mouse(Male), Inhalation, 13 Weeks); 500 ppm(m) Inhalation Hexane

Experimental result. Key study

LOAEL (Mouse(Male), Inhalation, 13 Weeks): 1,000 ppm(m) Inhalation

Experimental result. Key study

LOAEL (Rat(Male), Inhalation, 16 Weeks): 3,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Mouse(Female), Inhalation, 13 Weeks): 500 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental 2-Propanone

result. Kev study

NOAEL (Rat(Female, Male), Inhalation, 13 - 18 Weeks): 7,000 ppm(m) Cyclohexane

Inhalation Experimental result, Key study

NOAEL (Mouse(Female, Male), Inhalation, 13 - 18 Weeks): 500 ppm(m)

Inhalation Experimental result, Key study

Phenol, 4-nonyl-,

NOAEL (Rat(Female, Male), Oral, 14 - 18 Weeks): 650 ppm(m) Oral

branched Experimental result, Key study

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

2-Propanone in vivo (Rabbit): Not irritant Experimental result, Supporting study

Cyclohexane Review (Various): Irritating.

in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study

Phenol, 4-nonyl-,

branched

in vivo (Rabbit): Corrosive Experimental result, Weight of Evidence study

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## Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Naphtha (petroleum), hydrotreated light

Rabbit, 24 - 72 hrs: Not irritating

Hexane Rabbit, 1 - 72 hrs: Not irritating

2-Propanone Irritating.

Rabbit, 24 hrs: Minimum grade of severe eye irritant

Phenol, 4-nonyl-,

branched

Rabbit, 24 - 72 hrs: Corrosive

#### Respiratory or Skin Sensitization

**Product:** No data available.

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Specified substance(s):

Naphtha (petroleum), Skin sensitization:, in vivo (Guinea pig): Non sensitising

hydrotreated light

2-Propanone Skin sensitization:, in vivo (Guinea pig): Non sensitising Cyclohexane Skin sensitization:, in vivo (Guinea pig): Non sensitising Phenol, 4-nonyl-, Skin sensitization:, in vivo (Guinea pig): Non sensitising

branched

Carcinogenicity

**Product:** No data available.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

## **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

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

No carcinogenic components identified

#### **Germ Cell Mutagenicity**

In vitro

Product: No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

Specified substance(s):

Suspected of damaging fertility or the unborn child. Hexane

Phenol, 4-nonyl-,

branched

Suspected of damaging fertility or the unborn child.

## **Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

Specified substance(s):

Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects. Hexane Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects. 2-Propanone Cyclohexane Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.

## **Specific Target Organ Toxicity - Repeated Exposure**

Product: No data available.

Specified substance(s):

Hexane Inhalation - vapor: Nervous System - Category 2

## **Target Organs**

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

#### **Aspiration Hazard**

**Product:** No data available.

## Specified substance(s):

Naphtha (petroleum), May be fatal if swallowed and enters airways.

hydrotreated light



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Hexane May be fatal if swallowed and enters airways. Cyclohexane May be fatal if swallowed and enters airways.

Other effects: No data available.

## 12. Ecological information

## **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Naphtha (petroleum), hydrotreated light

LC 50 (96 h): 8.41 mg/l Experimental result, Key study

Hexane LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2.101 - 2.981 mg/l

Mortality

2-Propanone LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key

study

Cyclohexane LC 50 (Pimephales promelas, 96 h): 4.53 mg/l Experimental result, Key

study

Phenol, 4-nonyl-,

branched

LC 50 (Oncorhynchus mykiss, 96 h): 221 µg/l Experimental result, Key study

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Naphtha (petroleum), hydrotreated light

EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study

Hexane EC 50 (Daphnia magna, 48 h): 21.85 mg/l QSAR QSAR, Key study

LC 50 (Water flea (Daphnia magna), 24 h): > 50 mg/l Mortality

2-Propanone LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study

Cyclohexane EC 50 (Daphnia magna, 48 h): 0.9 mg/l Experimental result, Key study

Phenol, 4-nonyl-,

branched

EC 50 (Daphnia magna, 48 h): 84.4 µg/l Experimental result, Key study

## Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Naphtha (petroleum), EC 50 (Daphnia magna): 10 mg/l Other, Key study hydrotreated light NOAEL (Daphnia magna): 2.6 mg/l Other, Key study



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Hexane NOAEL (Oncorhynchus mykiss): 2.8 mg/l QSAR QSAR, Key study

Phenol, 4-nonyl-,

branched

LOAEL (Oncorhynchus mykiss): 0.0103 mg/l Experimental result, Key study

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Naphtha (petroleum), hydrotreated light

EC 50 (Daphnia magna): 10 mg/l Experimental result, Key study NOAEL (Daphnia magna): 2.6 mg/l Experimental result, Key study

Hexane NOAEL (Daphnia magna): 4.888 mg/l QSAR QSAR, Key study

2-Propanone LOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study

NOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study

Phenol, 4-nonyl-,

branched

NOAEL (Daphnia magna): 0.039 mg/l Experimental result, Key study

**Toxicity to Aquatic Plants** 

**Product:** 

No data available.

Persistence and Degradability

Biodegradation

**Product:** No data available.

Specified substance(s):

Naphtha (petroleum), hydrotreated light

90.35 % (28 d) Detected in water. Experimental result, Supporting study

Hexane 81 % Detected in water. Read-across based on grouping of substances

(category approach), Key study

2-Propanone 90.9 % (28 d) Detected in water. Experimental result, Key study

Cyclohexane 77 % (28 d) Detected in water. Experimental result, Key study

Phenol, 4-nonyl-, 100 % (63 d) Sediment Experimental result, Key study

branched 46 % Sediment Experimental result, Key study

**BOD/COD** Ratio

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Specified substance(s):

Naphtha (petroleum), hydrotreated light

Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by

13/18

calculation, Key study

Hexane Pimephales promelas, Bioconcentration Factor (BCF): 501.19 Aquatic

sediment QSAR, Key study

2-Propanone Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment

Experimental result, Not specified

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Cyclohexane Cyprinus carpio, Bioconcentration Factor (BCF): 37 - 129 Aquatic sediment

Experimental result, Supporting study

Phenol, 4-nonyl-, Pimephales promelas, Bioconcentration Factor (BCF): 740 Aquatic sediment

branched Experimental result, Key study

Lepomis macrochirus, Bioconcentration Factor (BCF): 231 Aquatic sediment

Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Specified substance(s):

Naphtha (petroleum), Log Kow: > 2.4 - < 5.7 23 °C Yes Experimental result, Key study hydrotreated light Log Kow: 2.2 - 5.2 23 °C Yes Experimental result, Key study

Log Kow: 2.2 - 6.1 23 °C Yes Experimental result, Key study

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Naphtha (petroleum), No data available.

hydrotreated light

Hexane No data available.
2-Propanone No data available.
Cyclohexane No data available.
Phenol, 4-nonyl-, branched No data available.

Other adverse effects: Toxic to aquatic life with long lasting effects.

13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

Contaminated Packaging: No data available.

14. Transport information

**DOT** 

UN Number: UN 1993

UN Proper Shipping Name: Flammable liquids, n.o.s.

Transport Hazard Class(es)

Class: 3
Label(s): Packing Group: II
Marine Pollutant: Yes

Environmental Hazards No Marine Pollutant Yes

Special precautions for user: Not regulated.

**IMDG** 

UN Number: UN 1993

UN Proper Shipping Name: Flammable liquids, n.o.s.

Transport Hazard Class(es)

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Class: 3 Label(s):

EmS No.:

Packing Group: Ш

**Environmental Hazards** No Marine Pollutant Yes

Special precautions for user: Not regulated.

IATA

**UN Number:** UN 1993

Proper Shipping Name: Flammable liquids, n.o.s.

Transport Hazard Class(es):

Class: 3 Label(s): Packing Group: П

**Environmental Hazards** Nο Marine Pollutant Yes

Special precautions for user: Not regulated.

Allowed. Cargo aircraft only:

## 15. Regulatory information

## **US Federal Regulations**

Restrictions on use: Not known.

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

**Chemical Identity** OSHA hazard(s)

Benzene respiratory tract irritation

Central nervous system

Blood Skin

Flammability Cancer Aspiration Eye

## CERCLA Hazardous Substance List (40 CFR 302.4):

<b>Chemical Identity</b>	Reportable quantity
Hexane	lbs. 5000
2-Propanone	lbs. 5000
Cyclohexane	lbs. 1000
Benzene	lbs. 10
Heptane	lbs. 100
Phenol	lbs. 1000
Benzene, ethenyl-	lbs. 1000
Benzene, methyl-	lbs. 1000
Benzene, ethyl-	lbs. 1000



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## Superfund Amendments and Reauthorization Act of 1986 (SARA)

## **Hazard categories**

Fire Hazard

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

Flammable liquids
Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Toxic to reproduction

Specific Target Organ Toxicity - Single Exposure Specific Target Organ Toxicity - Repeated Exposure

Aspiration Hazard

Static-accumulating flammable liquid

## **SARA 302 Extremely Hazardous Substance**

<u>Re</u>	<u> po</u>	r	<u>ta</u>	bl	e
			_		

Chemical IdentityquantityThreshold Planning QuantityHexane2-PropanonePhenollbs. 1000- - - -

## **SARA 304 Emergency Release Notification**

Chemical Identity	Reportable quantity
Hexane	lbs. 5000
2-Propanone	lbs. 5000
Cyclohexane	lbs. 1000
Benzene	lbs. 10
Heptane	lbs. 100
Phenol	lbs. 1000
Benzene, ethenyl-	lbs. 1000
Benzene, methyl-	lbs. 1000
Benzene, ethyl-	lbs. 1000

## SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Phenol	lbs
Naphtha (petroleum),	10000 lbs
hydrotreated light	
Hexane	10000 lbs
2-Propanone	10000 lbs
Cyclohexane	10000 lbs
Talc (Mg3H2(SiO3)4)	10000 lbs
Benzene	10000 lbs
Heptane	10000 lbs
Phenol, 4-nonyl-,	10000 lbs
branched	
Benzene, ethenyl-	10000 lbs
Benzene, methyl-	10000 lbs
Benzene, ethyl-	10000 lbs

## **SARA 313 (TRI Reporting)**

	<u>Reporting</u>	Reporting threshold for
	threshold for	manufacturing and
Chemical Identity	other users	processing
Hexane	lbs	lbs.
Cyclohexane	lbs	lbs.



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# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) US State Regulations

## **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Hexane Male reproductive toxin. 12 2017
Benzene Developmental toxin. 03 2008

Benzene Carcinogenic. 05 2011

Benzene Male reproductive toxin. 03 2008

Benzene, ethenylBenzene, methylBenzene, ethylCarcinogenic. 04 2016
Developmental toxin. 03 2008
Carcinogenic. 05 2011

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

## **Chemical Identity**

Naphtha (petroleum), hydrotreated light

Hexane 2-Propanone Cyclohexane

## **US. Massachusetts RTK - Substance List**

## **Chemical Identity**

Benzene

Phenol

Benzene, ethenyl-

#### US. Pennsylvania RTK - Hazardous Substances

## **Chemical Identity**

Naphtha (petroleum), hydrotreated light

Hexane

2-Propanone

Cyclohexane

## **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

## International regulations

#### Montreal protocol

Hexane

2-Propanone

#### Stockholm convention

Hexane

2-Propanone

#### **Rotterdam convention**

Hexane

2-Propanone

## **Kyoto protocol**



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**Inventory Status:** 

Australia AICS: On or in compliance with the inventory

Canada DSL Inventory List:

On or in compliance with the inventory

EINECS, ELINCS or NLP: Not in compliance with the inventory.

Japan (ENCS) List: Not in compliance with the inventory.

China Inv. Existing Chemical Substances: Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory.

Canada NDSL Inventory: Not in compliance with the inventory.

Philippines PICCS: On or in compliance with the inventory

US TSCA Inventory: On or in compliance with the inventory

New Zealand Inventory of Chemicals: On or in compliance with the inventory

Japan ISHL Listing: Not in compliance with the inventory.

Japan Pharmacopoeia Listing: Not in compliance with the inventory.

Mexico INSQ: Not in compliance with the inventory.

Ontario Inventory: Not in compliance with the inventory.

Taiwan Chemical Substance Inventory: On or in compliance with the inventory

## 16.Other information, including date of preparation or last revision

**Issue Date:** 09/05/2019

**Revision Information:** No data available.

Version #: 1.0

Further Information: No data available.

**Disclaimer:** This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.