

# Stadis (R) 450 Material Safety Data Sheet

# 1. Product and company identification

Common name : Stadis (R) 450

Material uses : Petrochemical industry: Fuel additive. Anti-static agents.

Internal code : 10101 Supplier : APS, LLC

North American Headquarters

3026 NW 72 AVE

MIAMI FL 33122 USA

Information contact : 305-477-8677

## 2. Hazards identification

Physical state : Liquid. [Clear.]

Odor : Aromatic.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

**Emergency overview**: WARNING!

FLAMMABLE LIQUID AND VAPOR. CAUSES RESPIRATORY TRACT AND SKIN IRRITATION. HARMFUL OR FATAL IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. SUSPECT CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER. DEVELOPMENTAL HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE ADVERSE DEVELOPMENTAL EFFECTS.

Flammable liquid. May be harmful if swallowed. Irritating to respiratory system and skin. Aspiration hazard if swallowed. Can enter lungs and cause damage. Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Contains material that can cause target organ damage. Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure. Contains material which can cause developmental abnormalities. Avoid exposure during

pregnancy. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

#### Potential acute health effects

Inhalation : Irritating to respiratory system. Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure.

Ingestion : Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause

damage.

Skin : Irritating to skin.

**Eyes**: May cause eye irritation.

Potential chronic health effects

**Chronic effects** : Contains material that can cause target organ damage.

Carcinogenicity : Contains material which may cause cancer. Risk of cancer depends on duration and

level of exposure.

Mutagenicity : No known significant effects or critical hazards.Teratogenicity : No known significant effects or critical hazards.

**Developmental effects**: Contains material which can cause developmental abnormalities.

Fertility effects: No known significant effects or critical hazards.

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## 2. Hazards identification

**Target organs** 

: Contains material which causes damage to the following organs: kidneys, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

#### Over-exposure signs/symptoms

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion

: Adverse symptoms may include the following:

nausea or vomiting

Skin

Adverse symptoms may include the following:

irritation redness

Eyes

: No specific data.

Medical conditions aggravated by overexposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at

risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

# 3. Composition/information on ingredients

<u>Name</u>	CAS number	<u>%</u>
toluene	108-88-3	30 - 60
solvent naphtha (petroleum), heavy arom.	64742-94-5	15 - 30
naphthalenesulfonic acid, dinonyl-	25322-17-2	10 - 14.99
isopropanol	67-63-0	1 - 4.99
naphthalene	91-20-3	0.1 - <1

## 4. First aid measures

Eye contact

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical

attention immediately.

**Skin contact** 

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Protection of first-aiders** 

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

# Fire-fighting measures

Flammability of the product

: May be combustible at high temperature.

**Products of combustion** 

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

**Extinguishing media** 

Suitable

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Not suitable

: Do not use water jet.

Special exposure hazards

: Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

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## 5. Fire-fighting measures

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Accidental release measures

#### **Personal precautions**

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

#### **Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods for cleaning up

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

#### **Handling**

: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# 8. Exposure controls/personal protection

#### **Product name**

#### **Exposure limits**

toluene

OSHA PEL 1989 (United States, 3/1989).

TWA: 100 ppm, 0 times per shift, 8 hour(s). TWA: 375 mg/m³, 0 times per shift, 8 hour(s). STEL: 150 ppm, 0 times per shift, 15 minute(s). STEL: 560 mg/m³, 0 times per shift, 15 minute(s).

OSHA PEL Z2 (United States, 11/2006).

TWA: 200 ppm, 0 times per shift, 8 hour(s). CEIL: 300 ppm, 0 times per shift, 0 hour(s). AMP: 500 ppm, 0 times per shift, 10 minute(s).

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# 8. Exposure controls/personal protection

#### NIOSH REL (United States, 12/2001).

TWA: 100 ppm, 0 times per shift, 10 hour(s). TWA: 375 mg/m³, 0 times per shift, 10 hour(s). STEL: 150 ppm, 0 times per shift, 15 minute(s). STEL: 560 mg/m³, 0 times per shift, 15 minute(s).

#### ACGIH TLV (United States, 1/2007).

TWA: 20 ppm, 0 times per shift, 8 hour(s).

#### ACGIH TLV (United States, 1/2007).

TWA: 200 ppm, 0 times per shift, 8 hour(s). STEL: 400 ppm, 0 times per shift, 15 minute(s).

#### OSHA PEL 1989 (United States, 3/1989).

TWA: 400 ppm, 0 times per shift, 8 hour(s).
TWA: 980 mg/m³, 0 times per shift, 8 hour(s).
STEL: 500 ppm, 0 times per shift, 15 minute(s).
STEL: 1225 mg/m³, 0 times per shift, 15 minute(s).

#### NIOSH REL (United States, 12/2001).

TWA: 400 ppm, 0 times per shift, 10 hour(s). TWA: 980 mg/m³, 0 times per shift, 10 hour(s). STEL: 500 ppm, 0 times per shift, 15 minute(s). STEL: 1225 mg/m³, 0 times per shift, 15 minute(s).

#### OSHA PEL (United States, 11/2006).

TWA: 400 ppm, 0 times per shift, 8 hour(s). TWA: 980 mg/m³, 0 times per shift, 8 hour(s).

#### naphthalene

isopropanol

#### ACGIH TLV (United States, 1/2007).

TWA: 10 ppm, 0 times per shift, 8 hour(s). TWA: 52 mg/m³, 0 times per shift, 8 hour(s). STEL: 15 ppm, 0 times per shift, 15 minute(s). STEL: 79 mg/m³, 0 times per shift, 15 minute(s).

#### OSHA PEL 1989 (United States, 3/1989).

TWA: 10 ppm, 0 times per shift, 8 hour(s). TWA: 50 mg/m³, 0 times per shift, 8 hour(s). STEL: 15 ppm, 0 times per shift, 15 minute(s). STEL: 75 mg/m³, 0 times per shift, 15 minute(s).

#### NIOSH REL (United States, 12/2001).

TWA: 10 ppm, 0 times per shift, 10 hour(s). TWA: 50 mg/m³, 0 times per shift, 10 hour(s). STEL: 15 ppm, 0 times per shift, 15 minute(s). STEL: 75 mg/m³, 0 times per shift, 15 minute(s).

#### OSHA PEL (United States, 11/2006).

TWA: 10 ppm, 0 times per shift, 8 hour(s). TWA: 50 mg/m³, 0 times per shift, 8 hour(s).

#### Consult local authorities for acceptable exposure limits.

#### **Engineering measures**

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **Personal protection**

**Eyes** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Recommended: splash goggles

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Respiratory

: 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.

Recommended: full-face mask organic vapor filter (Type A)

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## 8. Exposure controls/personal protection

**Hands** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

>8 hours (breakthrough time): Viton

<1 hours (breakthrough time): nitrile rubber, polyvinyl alcohol (PVA)

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. Physical and chemical properties

Physical state

: Liquid. [Clear.]

Flash point

: Closed cup: 6°C (42.8°F) [Pensky-Martens. ASTM D93]

**Auto-ignition temperature** 

: Lowest known value: 399°C (750.2°F) (isopropanol).

Flammable limits

Greatest known range: Lower: 2.3% Upper: 12.7% (isopropanol)

Color Odor : Amber. [Dark]

**Boiling/condensation point** 

: Aromatic.: 90°C (194°F)

**Melting/freezing point** 

: May start to solidify at the following temperature: <-20°C (-4°F) This is based on data for the following ingredient: solvent naphtha (petroleum), heavy arom.. Weighted average: -

71.66°C (-97°F)

Density

0.92 g/cm³ [15°C (59°F)]

**Specific gravity** 

: 0.92

Vapor pressure

<6.2 kPa (<46.5 mm Hg) (at 20°C)

Vapor density

Highest known value: 4.6 to 5.5 (Air = 1) (solvent naphtha (petroleum), heavy arom.).

Weighted average: 3.71 (Air = 1)

Odor threshold

Lowest known value: 1.74 ppm (toluene)

**Evaporation rate** 

: Highest known value: 2 (toluene) Weighted average: 1.37compared with Butyl acetate.

**Viscosity** 

Dynamic: >7 mPa·s (>7 cP) Kinematic: >0.07 cm²/s (>7 cSt) Kinematic (40°C): 0.069 cm²/s (6.9 cSt)

**Dispersibility properties** 

Not dispersible in the following materials: cold water.

Solubility

: Partially soluble in the following materials: cold water and hot water.

# 10 . Stability and reactivity

Stability and reactivity

: The product is stable.

Incompatibility with various substances

: Highly reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Hazardous polymerization** 

: Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions of reactivity** 

: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.

# 11. Toxicological information

#### **Acute toxicity**

Product/ingredient name toluene	Result LD50 Dermal LD50 Oral LC50 Inhalation	Species Rabbit Rat Rat	<b>Dose</b> 14100 uL/kg 636 mg/kg 26700 ppm	Exposure - - 1 hours
	Vapor			
solvent naphtha (petroleum), heavy arom.	LD50 Dermal LD50 Oral	Rabbit Rat	>2000 mg/kg >2000 mg/kg	-
isopropanol	LD50 Dermal LD50 Oral	Rabbit Rat	12800 mg/kg	-
naphthalene	LD50 Oral LD50 Dermal	Rat	5000 mg/kg >2500 mg/kg	-

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## 11. Toxicological information

LD50 Oral Rat 490 mg/kg -LC50 Inhalation Rat >340 mg/m³ 1 hours

Vapor

**Conclusion/Summary** 

**Chronic toxicity** 

: Not available.

**Conclusion/Summary**: Not available.

Irritation/Corrosion

Product/ingredient name Result Species Score Exposure Observation

Stadis (R) 450 Skin - Primary Rabbit 1.9 4 hours 0.5 ml 21 days

dermal irritation index (PDII)

**Conclusion/Summary** 

Skin: Slightly irritating to the skin.Eyes: Severely irritating to eyes.Respiratory: May cause respiratory irritation.

<u>Sensitizer</u>

**Conclusion/Summary** 

**Skin** : Sensitizing properties of the product: Not available.

**Carcinogenicity** 

Conclusion/Summary: Not available.

**Classification** 

Product/ingredient name **ACGIH IARC EPA NIOSH** NTP **OSHA** toluene A4 3 3 isopropanol Α4 naphthalene A4 2B Possible

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

**Conclusion/Summary**: Not available.

Reproductive toxicity

**Conclusion/Summary**: Possible risk of harm to the unborn child.

# 12. Ecological information

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Aquatic ecotoxicity** 

Product/ingredient name toluene	Test -	Result Acute EC50 6 mg/L	Species Daphnia - Daphnia magna	<b>Exposure</b> 48 hours
	-	Acute LC50 5.8 mg/L	Fish - Oncorhynchus mykiss	96 hours
	-	Acute LC50 12.6 mg/L	Fish - Pimephales promelas	96 hours
solvent naphtha (petroleum), heavy arom.	-	Acute EC50 3 to 10 mg/l	Daphnia	48 hours
	-	Acute EC50 1 to 3 mg/l	Algae	72 hours
	-	Acute LC50 2 to 5 mg/l	Fish	96 hours
isopropanol	-	Acute LC50 6550 mg/L	Fish - Pimephales promelas	96 hours
	-	Acute LC50 10400000 to 10600000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours

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## 12. Ecological information

Acute LC50 Fish - Fathead
9640000 to minnow 10000000 ug/L Pimephales
Fresh water promelas

naphthalene - Acute EC50 1.96 Daphnia - Water 48 hours

mg/L Fresh water flea - Daphnia

magna

96 hours

96 hours

Acute LC50 1.8 Fish -

mg/L Oncorhynchus

mykiss

Acute LC50 12 Fish - Minnows 96 hours

mg/L

Conclusion/Summary Biodegradability

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: Not available.

Conclusion/Summary

: Not available.

Other adverse effects : No known significant effects or critical hazards.

## 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1993	Flammable liquids, n.o.s. (toluene, isopropanol)	3	II	Passonal term	Limited quantity Yes.  Packaging instruction Passenger aircraft Quantity limitation: 5 L  Cargo aircraft Quantity limitation: 60 L  Special provisions IB2, T7, TP1, TP8, TP28

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14 . Transpo	UN1993	FLAMMABLE LIQUID,	3	lii .		Evalosive Limit and
TDG Classification	0111993	N.O.S. (toluene, isopropanol)	3	"	3	Explosive Limit and Limited Quantity Index
						Passenger Carrying Road or Rail Index 5
						Special provisions 16
Mexico Classification	UN1993	LIQUIDO INFLAMABLE, N.E.P. (toluene, isopropanol)	3	II	3	Special provisions 274
ADR/RID Class	UN1993	FLAMMABLE LIQUID, N.O.S. (toluene, isopropanol)	3	II	3	Hazard identification number 33
						<u>Limited quantity</u> LQ4
						CEFIC Tremcard 30GF1-I+II
IMDG Class	UN1993	FLAMMABLE LIQUID, N.O.S. (toluene, isopropanol)	3	II	<u>₹</u>	Emergency schedules (EmS) F-E, _S-E_
IATA-DGR Class	UN1993	Flammable liquid, n.o.s. (toluene, isopropanol)	3	II		Passenger and Cargo Aircraft Quantity limitation: 5 L Cargo Aircraft Only Quantity limitation: 60 L Limited Quantities - Passenger Aircraft Quantity limitation: 1 L

PG\*: Packing group

Reportable quantity

: CERCLA: Hazardous substances.: toluene: 1000 lbs. (454 kg); naphthalene: 100 lbs.

(45.4 kg); methanol: 5000 lbs. (2270 kg); benzene: 10 lbs. (4.54 kg);

: Closed cup: 6°C (42.8°F) [Pensky-Martens. ASTM D93]

# 15. Regulatory information

#### **United States**

Flash point

HCS Classification : Flammable liquid

Irritating material
Carcinogen
Target organ effects

U.S. Federal regulations

TSCA 4(a) final test rules: naphthalene

TSCA 8(a) PAIR: naphthalene

United States inventory (TSCA 8b): All components are listed or exempted.

TSCA 12(b) one-time export: naphthalene

Made in the USA

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: toluene; isopropanol

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification**: toluene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; isopropanol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health

hazard

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## 15. Regulatory information

Clean Water Act (CWA) 307: toluene; naphthalene; benzene Clean Water Act (CWA) 311: toluene; naphthalene; benzene

Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

#### **SARA 313**

Form R - Reporting	Product name : toluene	<u>CAS number</u> 108-88-3	<b>Concentration</b> 30 - 60
requirements	isopropanol	67-63-0	0.99 - 4.99
	naphthalene	91-20-3	0.09 - 0.99
Supplier notification	<ul><li>toluene</li></ul>	108-88-3	30 - 60
	isopropanol	67-63-0	0.99 - 4.99
	naphthalene	91-20-3	0.09 - 0.99

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

Ingredient name	<u>Cancer</u>	Reproductive	No significant risk level	Maximum acceptable dosage level
toluene	No.	Yes.	No.	7000 μg/day (ingestion) 13000 μg/day (inhalation)
naphthalene	Yes.	No.	Yes.	No.
benzene	Yes.	Yes.		24 μg/day (ingestion) 49 μg/day (inhalation)

#### Canada

WHMIS (Canada) : Class B-2: Flammable liquid

Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Class E: Corrosive material

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

#### **EU regulations**

Hazard symbol or symbols:



Risk phrases : R11- Highly flammable.

R63- Possible risk of harm to the unborn child.

R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R65- Harmful: may cause lung damage if swallowed.

R41- Risk of serious damage to eyes.

R66- Repeated exposure may cause skin dryness or cracking.

R67- Vapors may cause drowsiness and dizziness.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases : S26- In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

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## 16. Other information

**Label requirements** 

: FLAMMABLE LIQUID AND VAPOR. CAUSES RESPIRATORY TRACT AND SKIN IRRITATION. HARMFUL OR FATAL IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. SUSPECT CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER. DEVELOPMENTAL HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE ADVERSE DEVELOPMENTAL EFFECTS.

Made in the USA

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



 Date of printing
 : 20/05/2009.

 Date of issue
 : 19/05/2009.

Date of previous issue : No previous validation.

Version : 1.02

✓ Indicates information that has changed from previously issued version.

## Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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