

# Safety Data Sheet

## D 25 Super Blue

Version 0.0

Revision Date: 06/07/2015

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : D 25 Super Blue  
**Product Use Description** : Cleaner.

#### Manufacturer or supplier's details

**Company** : Superior Products  
**Address** : 6962 State Route 111  
South Roxana IL 62087  
United States of America

#### Emergency telephone number:

Health North America: 1-855-NEXEO4U (1-855-639-3648)  
Health International: 1-855-NEXEO4U (1-855-639-3648)  
Transport North America: CHEMTREC 800.424.9300

**Additional Information:** : Responsible Party: Product Safety Group  
[E-Mail: sds@nexeosolutions.com](mailto:sds@nexeosolutions.com)  
SDS Requests: 1-800-779-8826  
SDS Requests Fax: 1-618-254-7421

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 3  
Acute toxicity (Inhalation) : Category 4  
Skin irritation : Category 2  
Eye irritation : Category 2A  
Germ cell mutagenicity : Category 1B  
Carcinogenicity : Category 1B  
Specific target organ toxicity - single exposure : Category 3 (Respiratory system, Central nervous system)  
Specific target organ toxicity - repeated exposure : Category 2 (Liver, Kidney, Central nervous system)  
Specific target organ toxicity - repeated exposure (Oral) : Category 2

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Aspiration hazard : Category 1

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### GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.  
H373 May cause damage to organs (Liver, Kidney, Central nervous system) through prolonged or repeated exposure.

Precautionary statements : **Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.  
P281 Use personal protective equipment as required. **Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

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P303 + P361 + P353 IF ON SKIN (or hair): Remove/  
Take off immediately all contaminated clothing. Rinse  
skin with water/ shower.

P304 + P340 + P312 IF INHALED: Remove victim to  
fresh air and keep at rest in a position comfortable for  
breathing. Call a POISON CENTER or doctor/ physician if  
you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with  
water for several minutes. Remove contact lenses, if  
present and easy to do. Continue rinsing.

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

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical  
advice/ attention.

P337 + P313 If eye irritation persists: Get medical  
advice/ attention.

P362 Take off contaminated clothing and wash before  
reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical  
or alcohol-resistant foam for extinction.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep  
container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved  
waste disposal plant.

## Potential Health Effects

### Carcinogenicity:

#### IARC

Group 1: Carcinogenic to humans

71-43-2

\*\*Benzene

Group 2B: Possibly carcinogenic to humans

100-41-4

\*\*Ethylbenzene

91-20-3

\*\*Naphthalene

98-82-8

\*\*Cumene

#### ACGIH

Confirmed human carcinogen

71-43-2

\*\*Benzene

Confirmed animal carcinogen with unknown relevance to

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humans

100-41-4

\*\*Ethylbenzene

### OSHA

OSHA specifically regulated carcinogen

71-43-2

\*\*Benzene

### NTP

Known to be human carcinogen

71-43-2

\*\*Benzene

Reasonably anticipated to be a human carcinogen

91-20-3

\*\*Naphthalene

### Emergency Overview

Appearance	liquid
Colour	blue
Odour	hydrocarbon-like
Hazard Summary	No information available.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

CAS-No.	Chemical Name	Concentration (%)
8052-41-3 / 64742-88-7 / 64742-48-9	Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydro-treated Naphtha, Heavy	30 - 50
1330-20-7	Mixed xylenes	20 - 30
64742-94-5	Solvent naphtha (petroleum), heavy arom.	20 - 30
98-06-6	**Butylbenzene, tert-	10 - 20
100-41-4	**Ethylbenzene	5 - 10
527-53-7	**Benzene, 1,2,3,5-tetramethyl-	5 - 10
91-20-3	**Naphthalene	5 - 10
95-93-2	**Benzene, 1,2,4,5-tetramethyl-	1 - 5
105-05-5	**1,4-Diethylbenzene	1 - 5
95-63-6	**1,2,4-trimethylbenzene	1 - 5
488-23-3	**1,2,3,4-Tetramethylbenzene	1 - 5
25551-13-7	**Benzene, trimethyl-	1 - 5
526-73-8	**Benzene, 1,2,5-trimethyl-	1 - 5
1074-43-7	**3-Propyltoluene	1 - 5

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111-84-2	**Nonane		1 - 5
108-88-3	**Toluene		1 - 5
496-11-7	**1H-Indene, 2,3-dihydro-		1 - 5
25340-17-4	**Benzene, diethyl-		1 - 5
98-82-8	**Cumene	0.1	- 1
71-43-2	**Benzene	0.1	- 1

**Special Notes:** : \*\* Other substances in the product which may present a health or environmental hazard.

### SECTION 4. FIRST AID MEASURES

<del>General advice</del>	<del>: Move out of dangerous area.</del> Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.
If inhaled	: Consult a physician after significant exposure. If unconscious place in recovery position and seek medical advice.
In case of skin contact	: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

### SECTION 5. FIREFIGHTING MEASURES

<del>Suitable extinguishing media</del>	<del>: Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical</del>
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Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: No hazardous combustion products are known
Specific extinguishing methods	: Use a water spray to cool fully closed containers.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for fire-fighting if necessary.

### **NFPA Flammable and Combustible Liquids Classification:**

Flammable Liquid Class IC

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	: <del>Use personal protective equipment.</del> Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental 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	: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## **SECTION 7. HANDLING AND STORAGE**

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Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.

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Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.

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

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
8052-41-3 / 64742-88-7 / 64742-48-9	Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydrotreated Naphtha, Heavy	TWA	100 ppm	ACGIH
		TWA	350 mg/m <sup>3</sup>	NIOSH REL
		C	1,800 mg/m <sup>3</sup>	NIOSH REL
		TWA	500 ppm 2,900 mg/m <sup>3</sup>	OSHA Z-1
		TWA	100 ppm 525 mg/m <sup>3</sup>	OSHA P0
1330-20-7	Mixed xylenes	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		TWA	100 ppm	OSHA Z-1

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			435 mg/m3	
64742-94-5	Solvent naphtha (petroleum), heavy arom.	TWA	500 ppm	OSHA Z-1
			2,000 mg/m3	
		TWA	200 mg/m3 (as total hydrocarbon vapor)	ACGIH
		TWA	400 ppm 1,600 mg/m3	OSHA P0
100-41-4	**Ethylbenzene	TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	NIOSH REL
		ST	125 ppm 545 mg/m3	NIOSH REL
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0
91-20-3	**Naphthalene	TWA	10 ppm	ACGIH
		STEL	15 ppm	ACGIH
		TWA	10 ppm 50 mg/m3	NIOSH REL
		ST	15 ppm 75 mg/m3	NIOSH REL
		TWA	10 ppm 50 mg/m3	OSHA Z-1
		TWA	10 ppm 50 mg/m3	OSHA P0
		STEL	15 ppm 75 mg/m3	OSHA P0
95-63-6	**1,2,4-trimethylbenzene	TWA	25 ppm 125 mg/m3	NIOSH REL
25551-13-7	**Benzene, trimethyl-	TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m3	OSHA P0
526-73-8	**Benzene, 1,2,5-trimethyl-	TWA	25 ppm 125 mg/m3	NIOSH REL
111-84-2	**Nonane	TWA	200 ppm	ACGIH
		TWA	200 ppm 1,050 mg/m3	NIOSH REL
		TWA	200 ppm 1,050 mg/m3	OSHA P0
108-88-3	**Toluene	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m3	NIOSH REL
		ST	150 ppm 560 mg/m3	NIOSH REL
		TWA	200 ppm	OSHA Z-2



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		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA P0
		STEL	150 ppm 560 mg/m3	OSHA P0
25340-17-4	**Benzene, diethyl-	TWA	5 ppm	US WEEL
98-82-8	**Cumene	TWA	50 ppm	ACGIH
		TWA	50 ppm 245 mg/m3	NIOSH REL
		TWA	50 ppm 245 mg/m3	OSHA Z-1
		TWA	50 ppm 245 mg/m3	OSHA P0
71-43-2	**Benzene	TWA	0.5 ppm	ACGIH
		STEL	2.5 ppm	ACGIH
		TWA	0.1 ppm	NIOSH REL
		ST	1 ppm	NIOSH REL
		PEL	1 ppm	OSHA CARC
		STEL	5 ppm	OSHA CARC
		TWA	10 ppm	OSHA Z-2
		CEIL	25 ppm	OSHA Z-2
		Peak	50 ppm	OSHA Z-2

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
**Ethylbenzene	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift at end of work-week	0.7 g/g creatinine	ACGIH BEI
**Toluene	108-88-3	Toluene	In blood	Prior to last shift of work-	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of	0.3 mg/g	ACGIH

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				shift (As soon as possible after exposure ceases)	Creatinine	BEI
**Benzene	71-43-2	S-Phenyl-mercaptopuric acid	Urine	End of shift (As soon as possible after exposure ceases)	25 µg/g creatinine	ACGIH BEI
		t,t-Muconic acid	Urine	End of shift (As soon as possible after exposure ceases)	500 µg/g creatinine	ACGIH BEI

### Personal protective equipment

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

Hand protection  
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	: liquid
Colour	: blue
Odour	: hydrocarbon-like
Odour Threshold	: No data available
pH	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash point	: 30 °C (86 °F)
Evaporation rate	: 1 Ethyl Ether
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: > 1(Air = 1.0)
Relative density	: 0.8305 @ 20 °C (68 °F)
Density	: 0.8305 g/cm <sup>3</sup> @ 20 °C (68 °F)
Bulk density	: No data available
Water solubility	: No data available
Solubility in other sol vents	: No data available
Partition coefficient: n- octanol/water	: No data available
Auto-ignition temperature	: No data available

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Thermal decomposition : No data available

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### SECTION 10. STABILITY AND REACTIVITY

<del>Reactivity</del>	<del>: No dangerous reaction known under conditions of normal use.</del>
Chemical stability	: Stable under normal conditions.
Possibility of hazardous mentioned. reactions	: No hazards to be specially
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: Bases Chromic acid Nitric acid Oxidizing agents Reducing agents Strong acids

### SECTION 11. TOXICOLOGICAL INFORMATION

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#### **Acute toxicity**

##### **Product:**

Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate : 13097 ppm Exposure time: 4 h Test atmosphere: gas Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : 2,138 mg/kg Method: Calculation method

##### **Components:**

##### **8052-41-3 / 64742-88-7 / 64742-48-9:**

Acute oral toxicity	: LD50 (rat): > 5,000 mg/kg Assessment: The substance or mixture has no acute
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oral toxicity

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Acute inhalation toxicity : LC50 (rat, male and female): >5500  
Exposure time: 4 h  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (rabbit, male and female): > 2,000 mg/kg  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity

### **1330-20-7:**

Acute oral toxicity : LD50 (rat, male): 3,523 mg/kg  
Method: EU Method B.1 (Acute Toxicity, Oral)  
GLP: no

Acute inhalation toxicity : LC50 (rat, male): 6700 ppm  
Exposure time: 4 h  
Method: Directive 67/548/EEC, Annex V, B.2.  
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (rabbit): 1,100 mg/kg  
Assessment: The component/mixture is moderately toxic after single contact with skin.

### **64742-94-5:**

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

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (rabbit, male and female): > 2,000 mg/kg

### **Skin corrosion/irritation**

#### **Product:**

Remarks: Irritating to skin.

#### **Components:**

#### **8052-41-3 / 64742-88-7 / 64742-48-9:**

Species: rabbit  
Exposure time: 4 h  
Method: OECD Test Guideline 404  
Result: Irritating to skin.

#### **1330-20-7:**

Species: rabbit  
Exposure time: 24 h

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Result: Irritating to skin.

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### **64742-94-5:**

Species: rabbit  
Exposure time: 24 h  
Method: In vivo  
Result: Irritating to skin.  
GLP: yes

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: Irritating to eyes.

#### **Components:**

##### **8052-41-3 / 64742-88-7 / 64742-48-9:**

Species: rabbit  
Result: Irritating to eyes.  
Method: OECD Test Guideline 405

##### **1330-20-7:**

Species: rabbit  
Result: Irritating to eyes.

##### **64742-94-5:**

Species: rabbit  
Result: Irritating to eyes.

### **Respiratory or skin sensitisation**

#### **Components:**

##### **8052-41-3 / 64742-88-7 / 64742-48-9:**

Test Type: Buehler Test  
Species: guinea pig  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.

##### **1330-20-7:**

Remarks: No data available

##### **64742-94-5:**

Test Type: Buehler Test  
Species: guinea pig  
Method: In vivo  
Result: Did not cause sensitisation on laboratory animals.  
GLP: yes  
Remarks: Based on a similar product formulation.

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### Germ cell mutagenicity

#### Components:

##### **8052-41-3 / 64742-88-7 / 64742-48-9:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: positive

: Test Type: Chromosome aberration test in vitro  
Test species: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Result: positive

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: mouse  
Cell type: Peripheral blood erythrocytes  
Application Route: Inhalation  
Exposure time: 3 mths  
Dose: 138 - 2200 mg/m<sup>3</sup>  
Result: positive

Test Type: In vivo micronucleus test  
Test species: rat  
Cell type: Peripheral blood erythrocytes  
Application Route: Inhalation  
Exposure time: 3 mths  
Dose: 138 - 2200 mg/m<sup>3</sup>  
Result: positive

Germ cell mutagenicity-Assessment : Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals

##### **1330-20-7:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test species: Chinese hamster ovary (CHO)  
Metabolic activation: with and without metabolic activation  
Method: Mutagenicity (in vitro mammalian cytogenetic test)  
Result: negative

: Test Type: Sister chromatid exchange assay in mammalian cells  
Test species: Chinese hamster ovary (CHO)  
Metabolic activation: with and without metabolic activation  
Result: negative

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Genotoxicity in vivo : Test Type: Dominant lethal assay  
Test species: mouse  
Application Route: Subcutaneous  
Exposure time: 8 wk  
Dose: 1.0 mL/kg  
Method: OECD Test Guideline 478  
Result: negative  
GLP: no

Germ cell mutagenicity-  
Assessment : Animal testing did not show any mutagenic effects.

### **64742-94-5:**

Germ cell mutagenicity-  
Assessment : Mutagenicity classification not possible from current  
data

## **Carcinogenicity**

### **Product:**

Carcinogenicity - As-  
essment : Possible human carcinogen

### **Components:**

#### **8052-41-3 / 64742-88-7 / 64742-48-9:**

Species: rat, (male and female)  
Application Route: Inhalation  
Exposure time: 105 wks  
Activity duration: 6 h  
Dose: 0, 138, 550, 1100, 2200 mg/m<sup>3</sup>  
Frequency of Treatment: 5 days/week  
NOAEL: 138 mg/m<sup>3</sup>

Result: No evidence of carcinogenic activity in females, Evidence of carcinogenic  
activity in males

Symptoms: Increased incidence of pheochromocytomas in adrenal glands

Remarks: Category 1B

Carcinogenicity - As  
essment : Possible human carcinogen

#### **1330-20-7:**

Species: mouse, (male and female)  
Application Route: Oral  
Exposure time: 103 wk  
Dose: 0, 500 or 1000 mg/kg  
Frequency of Treatment: 5 days/week  
Method: Directive 67/548/EEC, Annex V, B.32.  
Result: did not display carcinogenic properties  
GLP: No data available



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Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

**64742-94-5:**  
Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**100-41-4:**  
Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**98-82-8:**  
Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### Reproductive toxicity

#### Components:

**8052-41-3 / 64742-88-7 / 64742-48-9:**

Effects on fertility : Species: rat  
Application Route: Oral  
Dose: 0, 750, 1500, 3000 mg/kg/d  
General Toxicity - Parent: NOAEL: 1,500 mg/kg body weight  
Fertility: NOAEL:  $\geq$  3,000 mg/kg body weight  
Symptoms: weight loss  
Result: No reproductive effects.  
Remarks: Information given is based on data obtained from similar substances.

Species: rat  
Application Route: Oral  
Dose: 0, 325, 750, 1500 mg/kg/d  
General Toxicity - Parent: NOAEL: 750 mg/kg body weight  
General Toxicity F1: NOAEL: 750 mg/kg body weight  
Fertility: NOAEL:  $\geq$  1,500 mg/kg body weight  
Symptoms: Reduced maternal body weight gain. Reduced offspring weight gain.  
Result: Animal testing did not show any effects on fertility.  
Remarks: Information given is based on data obtained from similar substances.

Species: rat  
Application Route: Dermal  
Dose: 0, 165, 330, 494 mg/kg  
General Toxicity - Parent: NOAEL:  $\geq$  494 mg/kg  
Fertility: NOAEL:  $\geq$  494 mg/kg

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	Early Embryonic Development: NOAEL: $\geq$ 494 mg/kg
	Result: No reproductive effects.
	Remarks: Information given is based on data obtained from similar substances.
Effects on foetal development	: Species: rat Application Route: Oral Dose: 0, 500, 1000, 1500, 2000 milligram per kilogram Duration of Single Treatment: 10 d General Toxicity Maternal: NOAEL: 500 mg/kg body weight Teratogenicity: NOAEL: 2,000 mg/kg body weight Developmental Toxicity: NOAEL: 1,000 mg/kg body weight Symptoms: Reduced body weight Method: OECD Test Guideline 414 Result: Developmental toxicity occurred at maternal toxicity dose levels, No teratogenic effects.
Reproductive toxicity - Assessment generation study	: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments. <b>1330-20-7:</b> Effects on fertility : Test Type: Two- Species: rat, male and female Application Route: Inhalation Dose: 0, 25, 100 and 500 ppm Duration of Single Treatment: 6 h Frequency of Treatment: 7 days/week General Toxicity - Parent: NOAEC: $>$ 500 ppm General Toxicity F1: NOAEC: $>$ 500 ppm Early Embryonic Development: NOAEC: $>$ 500 ppm Result: No reproductive effects.
Effects on foetal development	: Species: rat Application Route: Inhalation Dose: 0, 100, 500, 1000 or 2000 ppm Duration of Single Treatment: 14 d Frequency of Treatment: 6 hr/day General Toxicity Maternal: NOAEC: 500 ppm Teratogenicity: NOAEC: $>$ 2,000 Developmental Toxicity: NOAEC: 100 ppm Result: No teratogenic effects., Developmental toxicity occurred at maternal toxicity dose levels
Reproductive toxicity - Assessment	: Animal testing did not show any effects on fertility. Damage to fetus not classifiable

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### 64742-94-5:

Effects on fertility

: Test Type: Fertility

Species: rat, male

Application Route: Oral

Dose: 0, 750, 1500, 3000 mg/kg/day

Duration of Single Treatment: 70 - 90 d

General Toxicity - Parent: LOAEL: 750 mg/kg body weight

Fertility: NOAEL:  $\geq$  3,000 mg/kg body weight

Symptoms: Reduced body weight

Result: No reproductive effects.

GLP: yes

Effects on foetal development

: Species: rat

Application Route: Oral

Dose: 0, 500, 1000, 1500, 2000 milligram per kilogram

Duration of Single Treatment: 10 d

General Toxicity Maternal: NOAEL: 500 mg/kg body weight

Teratogenicity: NOAEL: 2,000 mg/kg body weight

Developmental Toxicity: NOAEL: 1,000 mg/kg body weight

Symptoms: Reduced body weight

Method: OECD Test Guideline 414

Result: Developmental toxicity occurred at maternal toxicity dose levels, No teratogenic effects.

: Fertility classification not possible from current data.  
Embryotoxicity classification not possible from current data.

Reproductive toxicity  
- Assessment

**STOT - single exposure**

**Product:** No data available

### **Components:**

8052-41-3 / 64742-88-7 / 64742-48-9:

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

1330-20-7:

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Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Respiratory system	May cause respiratory irritation., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.	

64742-94-5:

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

98-06-6:No data available

100-41-4:No data available

527-53-7:No data available

91-20-3:No data available

95-93-2:No data available

105-05-5:No data available

95-63-6:No data available

488-23-3:No data available

25551-13-7:No data available

526-73-8:No data available

1074-43-7:No data available

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111-84-2:No data available

108-88-3:No data available

496-11-7:No data available

25340-17-4:No data available

98-82-8:No data available

71-43-2:No data available

### **STOT - repeated exposure**

**Product:**No data available

### **Components:**

**8052-41-3 / 64742-88-7 / 64742-48-9:**No data available

### **1330-20-7:**

<b>Exposure routes:</b>	<b>Target Organs:</b>	<b>Assessment:</b>	<b>Remarks:</b>
	Liver, Kidney, Central nervous system	May cause damage to organs through prolonged or repeated exposure., The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.	

**64742-94-5:**No data available

**98-06-6:**No data available

**100-41-4:**No data available

**527-53-7:**No data available

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91-20-3:No data available

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95-93-2:No data available

105-05-5:No data available

95-63-6:No data available

488-23-3:No data available

25551-13-7:No data available

526-73-8:No data available

1074-43-7:No data available

111-84-2:No data available

108-88-3:No data available

496-11-7:No data available

25340-17-4:No data available

98-82-8:No data available

71-43-2:No data available

Repeated dose toxicity

Components:

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### 8052-41-3 / 64742-88-7 / 64742-48-9:

Species: rat, male and female

NOAEL: 275

Application Route: Inhalation

Exposure time: 14 wks

Number of exposures: 6 h/d, 5 d/wk

Dose: 138, 275, 550, 1100, 2200mg/m<sup>3</sup>

Group: yes

Symptoms: nasal symptoms, Testicular effects, Kidney disorders

Remarks: male rat hydrocarbon nephropathy not relevant to humans

Species: rat, male

LOAEL: 750 mg/kg

Application Route: Oral

Exposure time: 70 - 90 d

Number of exposures: Daily

Dose: 0, 750, 1500, 3000 mg/kg/day

GLP: yes

Symptoms: weight loss, Local irritation

Species: mouse, male and female

LOAEL: 138

Application Route: Inhalation

Exposure time: 14 wks

Number of exposures: 6 h/d, 5 d/wk

Dose: 138, 275, 550, 1100, 2200mg/m<sup>3</sup>

Group: yes

Symptoms: Spleen effects

Species: rat, female

NOAEL: 750 mg/kg

Application Route: Oral

Exposure time: 21 wks

Number of exposures: Daily

Dose: 0, 325, 750, 1500 mg/kg/day

GLP: yes

Symptoms: weight loss, Local irritation

Species: rat, male and female

NOAEL: >= 24

Application Route: Inhalation

Test atmosphere: vapour

Exposure time: 4 wks

Number of exposures: 6 h/d, 5 d/wk

Dose: 0, 24 mg/m<sup>3</sup>

GLP: yes

Remarks: Information given is based on data obtained from similar substances.

Species: rat, male and female

NOAEL: >= 0.5 mg/l

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Application Route: Dermal

Exposure time: 4 wks

Number of exposures: 6 h/d, 5 d/wk

Dose: 0, 1.01, 0.05, 0.5 ml/kg/day

Method: OECD Test Guideline 410

GLP: yes

Remarks: Information given is based on data obtained from similar substances.

Repeated dose toxicity - : Causes skin irritation.  
Assessment

### **1330-20-7:**

Species: rat, male and female

NOAEL: 250 mg/kg

Application Route: Oral

Exposure time: 103 wk

Number of exposures: 5 d/wk

Dose: 0, 250 or 500 mg/kg

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### **64742-94-5:**

Species: rat, male

LOAEL: 750 mg/kg

Application Route: Oral

Exposure time: 70 - 90 d

Number of exposures: Daily

Dose: 0, 750, 1500, 3000 mg/kg/day

GLP: yes

Symptoms: weight loss, Local irritation

Repeated dose toxicity - : Causes skin irritation.  
Assessment

### **Aspiration toxicity**

#### **Product:**

May be fatal if swallowed and enters airways.

#### **Components:**

**8052-41-3 / 64742-88-7 / 64742-48-9:**

May be fatal if swallowed and enters airways.

**1330-20-7:**

May be fatal if swallowed and enters airways.

**64742-94-5:**

May be fatal if swallowed and enters airways.



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### Further information

#### Product:

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

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **8052-41-3 / 64742-88-7 / 64742-48-9:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 1.4 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata): 1 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

#### Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting

#### effects. **1330-20-7:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.6 mg/l

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Exposure time: 96 h  
Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 1 mg/l Exposure time: 24 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata): 4.36 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
Ecotoxicology Assessment	
Acute aquatic toxicity	: Toxic to aquatic life.
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects. <b>64742-94-5:</b>
Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l Exposure time: 96 h Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)): 1.4 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	: EL50 (Pseudokirchneriella subcapitata (green algae)): 1 - 3 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Ecotoxicology Assessment	
Acute aquatic toxicity	: Very toxic to aquatic life.
Chronic aquatic toxicity	: Very toxic to aquatic life with long lasting effects.

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### Persistence and degradability

#### Components:

##### **8052-41-3 / 64742-88-7 / 64742-48-9:**

Biodegradability : aerobic  
Concentration: 101 mg/l  
Biodegradation: 61 %  
Testing period: 10 d  
Exposure time: 28 d  
Lag phase: 5 d  
Test substance: Solvent naphtha (petroleum), heavy aromatic  
GLP: yes

##### **1330-20-7:**

Biodegradability : Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 72 %  
Exposure time: 20 d

##### **64742-94-5:**

Biodegradability : aerobic  
Concentration: 2 mg/l  
Biodegradation: 30 %  
Exposure time: 28 d  
Test substance: Solvent naphtha (petroleum), heavy aromatic  
GLP: yes  
Remarks: Not readily biodegradable.

### Bioaccumulative potential

#### Components:

##### **1330-20-7:**

Partition coefficient: n-octanol/water : log Pow: 2.77 - 3.15

##### **64742-94-5:**

Partition coefficient: n-octanol/water : log Pow: 3.2 - 4.5

##### **91-20-3:**

Partition coefficient: n-octanol/water : log Pow: 3.4 (25 °C)  
pH: 7 - 7.5

##### **95-63-6:**

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

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### 526-73-8:

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

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### 108-88-3:

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

### 98-82-8:

Partition coefficient: n-octanol/water : log Pow: 3.55 (23 °C)

### 71-43-2:

Partition coefficient: n-octanol/water : Pow: 2.13 (25 °C)  
pH: 7

### Mobility in soil

#### Components:

### 8052-41-3 / 64742-88-7 / 64742-48-9:

Stability in soil : Remarks: Adsorbs on soil.

### Other adverse effects

No data available

### Product:

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 in formation

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

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Waste from residues

: Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

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Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.

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Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14. TRANSPORT INFORMATION

**IATA (International Air Transport Association):** UN1993, FLAMMABLE LIQUID, N.O.S., (STODDARD SOLVENT, SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.), 3, III, Flash Point:30 °C(86 °F)

**IMDG (International Maritime Dangerous Goods):** UN1993, FLAMMABLE LIQUID, N.O.S., (STODDARD SOLVENT, SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.), 3, III, Marine Pollutant (STODDARD SOLVENT, SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.)

**DOT (Department of Transportation):** UN1993, Flammable liquids, n.o.s., (STODDARD SOLVENT, SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.), 3, III

### SECTION 15. REGULATORY INFORMATION

~~**OSHA Hazards** : Flammable liquid, Carcinogen, Harmful by inhalation, Moderate skin irritant, Severe eye irritant, Moderate respiratory irritant, Teratogen, Reproductive hazard, Mutagen, Specific target organ toxicity - single exposure, Specific target organ toxicity - repeated exposure, Aspiration hazard~~

**WHMIS Classification** : B2: Flammable liquid  
D2A: Very Toxic Material Causing Other Toxic Effects  
D2B: Toxic Material Causing Other Toxic Effects

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

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Mixed xylenes	1330-20-7	100	339

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

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

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### Acute Health Hazard

#### Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

100-41-4	**Ethylbenzene	8.6255 %
91-20-3	**Naphthalene	5.0562 %
108-88-3	**Toluene	1.8436 %
98-82-8	**Cumene	0.7224 %
71-43-2	**Benzene	0.4404 %
110-54-3	**n-Hexane	0.435 %
123-91-1	1,4-Dioxane	0.0763 PPM

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

1330-20-7	Mixed xylenes	29.477 %
100-41-4	**Ethylbenzene	8.6255 %
108-88-3	**Toluene	1.8436 %
98-82-8	**Cumene	0.7224 %
71-43-2	**Benzene	0.4404 %
25322-68-3	Polyethylene glycol	0.0114 %
123-91-1	1,4-Dioxane	0.0763 PPM

#### Clean Water Act

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

1330-20-7	Mixed xylenes	29.477 %
100-41-4	**Ethylbenzene	8.6255 %
91-20-3	**Naphthalene	5.0562 %
108-88-3	**Toluene	1.8436 %
71-43-2	**Benzene	0.4404 %

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

1330-20-7	Mixed xylenes	29.477 %
100-41-4	**Ethylbenzene	8.6255 %
91-20-3	**Naphthalene	5.0562 %
108-88-3	**Toluene	1.8436 %
71-43-2	**Benzene	0.4404 %

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

100-41-4	**Ethylbenzene	8.6255 %
91-20-3	**Naphthalene	5.0562 %
108-88-3	**Toluene	1.8436 %

#### US State Regulations

##### Massachusetts Right To Know

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8052-41-3 / 64742-88-7 / 64742-48-9	Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydrotreated Naphtha, Heavy	30 - 50 %
1330-20-7	Mixed xylenes	20 - 30 %
98-06-6	**Butylbenzene, tert-	10 - 20 %
100-41-4	**Ethylbenzene	5 - 10 %
91-20-3	**Naphthalene	5 - 10 %
105-05-5	**1,4-Diethylbenzene	1 - 5 %
95-63-6	**1,2,4-trimethylbenzene	1 - 5 %
25551-13-7	**Benzene, trimethyl-	1 - 5 %
111-84-2	**Nonane	1 - 5 %
108-88-3	**Toluene	1 - 5 %
71-43-2	**Benzene	0.1 - 1 %

### Pennsylvania Right To Know

8052-41-3 / 64742-88-7 / 64742-48-9	Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydrotreated Naphtha, Heavy	30 - 50 %
1330-20-7	Mixed xylenes	20 - 30 %
64742-94-5	Solvent naphtha (petroleum), heavy arom.	20 - 30 %
98-06-6	**Butylbenzene, tert-	10 - 20 %
100-41-4	**Ethylbenzene	5 - 10 %
527-53-7	**Benzene, 1,2,3,5-tetramethyl-	5 - 10 %
91-20-3	**Naphthalene	5 - 10 %
95-93-2	**Benzene, 1,2,4,5-tetramethyl-	1 - 5 %
105-05-5	**1,4-Diethylbenzene	1 - 5 %
95-63-6	**1,2,4-trimethylbenzene	1 - 5 %
488-23-3	**1,2,3,4-Tetramethylbenzene	1 - 5 %
25551-13-7	**Benzene, trimethyl-	1 - 5 %
111-84-2	**Nonane	1 - 5 %
108-88-3	**Toluene	1 - 5 %
98-82-8	**Cumene	0.1 - 1 %
71-43-2	**Benzene	0.1 - 1 %
25322-68-3	Polyethylene glycol	0 - 0.1 %

### New Jersey Right To Know

8052-41-3 / 64742-88-7 / 64742-48-9	Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydrotreated Naphtha, Heavy	30 - 50 %
1330-20-7	Mixed xylenes	20 - 30 %
64742-94-5	Solvent naphtha (petroleum), heavy arom.	20 - 30 %
98-06-6	**Butylbenzene, tert-	10 - 20 %

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100-41-4	**Ethylbenzene	5 - 10 %
91-20-3	**Naphthalene	5 - 10 %
95-63-6	**1,2,4-trimethylbenzene	1 - 5 %
25551-13-7	**Benzene, trimethyl-	1 - 5 %
111-84-2	**Nonane	1 - 5 %
108-88-3	**Toluene	1 - 5 %
25340-17-4	**Benzene, diethyl-	1 - 5 %
71-43-2	**Benzene	0.1 - 1 %

### California Prop 65

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

100-41-4	**Ethylbenzene
91-20-3	**Naphthalene
98-82-8	**Cumene
71-43-2	**Benzene
123-91-1	1,4-Dioxane

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

108-88-3	**Toluene
71-43-2	**Benzene

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

<b>United States TSCA Inventory</b>	: y (positive listing) (On TSCA Inventory)
<b>Canadian Domestic Substances List (DSL)</b>	: n (Negative listing) (This product contains one or several components that are not on the Canadian DSL nor NDSL.)
<b>Australia Inventory of Chemical Substances (AICS)</b>	: n (Negative listing) (Not in compliance with the inventory)
<b>New Zealand. Inventory of Chemical Substances</b>	: n (Negative listing) (Not in compliance with the inventory)
<b>Japan. ENCS - Existing and New Chemical Substances Inventory</b>	: n (Negative listing) (Not in compliance with the inventory)
<b>Japan. ISHL - Inventory of Chemical Substances</b>	: n (Negative listing)



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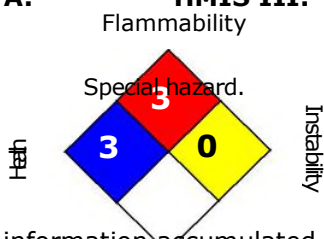
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<b>(METI)</b>		(Not in compliance with the inventory)
<b>Korea. Korean Existing Chemicals Inventory (KECI)</b>	:	n (Negative listing) (Not in compliance with the inventory)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	:	n (Negative listing) (Not in compliance with the inventory)
<b>China. Inventory of Existing Chemical Substances in China (IECSC)</b>	:	n (Negative listing) (Not in compliance with the inventory)

### SECTION 16. OTHER INFORMATION **Further information**

**NFPA:**



**HMIS III:**

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic	<b>HEALTH</b>	<b>3*</b>
	<b>FLAMMABILITY</b>	<b>3</b>
	<b>PHYSICAL HAZARD</b>	<b>0</b>

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) [MSDS@nexeosolutions.com](mailto:MSDS@nexeosolutions.com).

**Legacy MSDS:**

R0404225

**Material number:**

726771, 542643, 77424, 61916, 58737, 57911, 57826

# Safety Data Sheet

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<b>Key or legend to abbreviations and acronyms used in the safety data sheet</b>			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50			Lethal Concentration 50%