Safety Data Sheet
D 50 Final Sol

Version 0.0 Revision Date: 06/04/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : D 50 Final Sol
Product Use Description : Solvent.

Manufacturer or supplier's details

Company : Superior Products Co Inc
Address 6962 State Highway 111
South Roxana IL 62087
United States of America

Emergency telephone number:
Transport North America: CHEMTREC 800.424.9300

Additional Information: : Responsible Party: Product Safety Group
E-Mail: sds@superiorproducts.com
SDS Requests: 1-800-779-8826
SDS Requests Fax: 1-618-254-7421
Website: www.superiorproducts.com

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)

Aspiration hazard : Category 1

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+H319 Causes skin irritation and serious eye damage
H332 Harmful if inhaled.
H335 + H336 May cause respiratory irritation, and drowsiness or dizziness.
H340+H350 May cause genetic defects or cancer H373 May cause damage to organs 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.
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 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

Physical state	liquid
Colour	Various
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 Hydrotreated Naphtha, Heavy	50 - 70
1330-20-7	Mixed xylenes	30 - 50
100-41-4	**Ethylbenzene	0 - 20
25551-13-7	**Benzene, trimethyl-	0 - 5
95-63-6	**1,2,4-trimethylbenzene	0 - 5
91-20-3	**Naphthalene	0 - 5
111-84-2	**Nonane	0 - 5
108-88-3	**Toluene	0 - 5
98-82-8	**Cumene	0 - 1
71-43-2	**Benzene	0 - 1

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

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
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.
If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical

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 : Use personal protective equipment.
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

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
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 re-sealed 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/m3	NIOSH REL
		C	1,800 mg/m3	NIOSH REL
		TWA	500 ppm 2,900 mg/m3	OSHA Z-1
		TWA	100 ppm 525 mg/m3	OSHA P0
1330-20-7	Mixed xylenes	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	OSHA Z-1
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
25551-13-7	**Benzene, trimethyl-	TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m3	OSHA P0
95-63-6	**1,2,4-trimethylbenzene	TWA	25 ppm	NIOSH REL

			125 mg/m3	
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
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
		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
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 shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ACGIH BEI
**Benzene	71-43-2	S-Phenyl-mercapturic 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	500 µg/g creatinine	ACGIH BEI

ceases)

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: Various
Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash point	: 27 °C (81 °F)
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available

Burning rate	: No data available
Upper explosion limit	: 6.6 %(V)
Lower explosion limit	: 1 %(V)
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0.802 g/cm3 @ 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
Thermal decomposition	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous mentioned. reactions	: No hazards to be specially
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Reducing agents Strong bases Strong oxidizing agents

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 18748 ppm
Exposure time: 4 h
Test atmosphere: gas
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 3,078 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 oral toxicity

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.

Skin corrosion/irritation

Product:
Result: 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
Result: Irritating to skin.

Serious eye damage/eye irritation

Product:
Result: 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.

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

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/m3
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/m3
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

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.

Carcinogenicity

Product:

Carcinogenicity - Assessment	: 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/m3
Frequency of Treatment: 5 days/week
NOAEL: 138 mg/m^3

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 - Assessment	: 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

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

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: >= 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: >= 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: >= 494 mg/kg
Fertility: NOAEL: >= 494 mg/kg
Early Embryonic Development: NOAEL: >= 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 : No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.

1330-20-7:

Effects on fertility : Test Type: Two-generation study
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

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	May cause drowsi-	

	system	ness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

1330-20-7:

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.	

100-41-4:No data available

25551-13-7:No data available

95-63-6:No data available

91-20-3:No data available

111-84-2:No data available

108-88-3: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:

Exposure routes:	Target Organs:	Assessment:	Remarks:
	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.	

100-41-4: No data available

25551-13-7: No data available

95-63-6: No data available

91-20-3: No data available

111-84-2: No data available

108-88-3: No data available

98-82-8: No data available

71-43-2: No data available

Repeated dose toxicity

Components:

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/m3

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/m3
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/m3
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Species: rat, male and female
NOAEL: >= 0.5 mg/l
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 - Assessment : Causes skin irritation.

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.

Aspiration toxicity

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.

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 : EL50 (Daphnia magna (Water flea)): 1.4 mg/l

other aquatic inverte-brates	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 Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic inverte brates	: 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. **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

Bioaccumulative potential

Components:

1330-20-7:
Partition coefficient: n-octanol/water : log Pow: 2.77 - 3.15

95-63-6:
Partition coefficient: n-octanol/water : Remarks: No data available

91-20-3:
Partition coefficient: n-octanol/water : log Pow: 3.4 (25 °C)
pH: 7 - 7.5

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

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
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): UN1263, PAINT RELATED MATERIAL, 3, III, Flash Point:27 °C(81 °F)

IMDG (International Maritime Dangerous Goods): UN1263, PAINT RELATED MATERIAL, 3, III, Marine Pollutant (STODDARD SOLVENT**,** MIXED XYLENES)

DOT (Department of Transportation): UN1263, PAINT RELATED MATERIAL, 3, III

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable liquid, Carcinogen, Harmful by inhalation., Harmful by ingestion., Harmful by skin absorption., Moderate skin irritant, Moderate eye irritant, Moderate respiratory irritant, Teratogen, Reproductive hazard, Mutagen, 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	280

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
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	10.3831 %
91-20-3	**Naphthalene	3.3822 %
108-88-3	**Toluene	2.3618 %
98-82-8	**Cumene	0.9999 %
71-43-2	**Benzene	0.6828 %
110-54-3	**n-Hexane	0.6764 %

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 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

1330-20-7	Mixed xylenes	35.738 %
100-41-4	**Ethylbenzene	10.3831 %
108-88-3	**Toluene	2.3618 %
98-82-8	**Cumene	0.9999 %
71-43-2	**Benzene	0.6828 %

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	35.738 %
100-41-4	**Ethylbenzene	10.3831 %
91-20-3	**Naphthalene	3.3822 %

108-88-3	**Toluene	2.3618 %
71-43-2	**Benzene	0.6828 %

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

1330-20-7	Mixed xylenes	35.738 %
100-41-4	**Ethylbenzene	10.3831 %
91-20-3	**Naphthalene	3.3822 %
108-88-3	**Toluene	2.3618 %
71-43-2	**Benzene	0.6828 %

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

100-41-4	**Ethylbenzene	10.3831	%
91-20-3	**Naphthalene	3.3822	%
108-88-3	**Toluene	2.3618	%

US State Regulations

Massachusetts 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	50 - 70 %
1330-20-7	Mixed xylenes	30 - 50 %
100-41-4	**Ethylbenzene	10 - 20 %
25551-13-7	**Benzene, trimethyl-	1 - 5 %
95-63-6	**1,2,4-trimethylbenzene	1 - 5 %
91-20-3	**Naphthalene	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	50- 70 %
1330-20-7	Mixed xylenes	30- 50 %
100-41-4	**Ethylbenzene	10- 20 %
25551-13-7	**Benzene, trimethyl-	1- 5 %
95-63-6	**1,2,4-trimethylbenzene	1- 5 %
91-20-3	**Naphthalene	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 %

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	50- 70 %
1330-20-7	Mixed xylenes	30- 50 %
100-41-4	**Ethylbenzene	10- 20 %
25551-13-7	**Benzene, trimethyl-	1- 5 %
95-63-6	**1,2,4-trimethylbenzene	1- 5 %
91-20-3	**Naphthalene	1- 5 %
111-84-2	**Nonane	1- 5 %
108-88-3	**Toluene	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

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

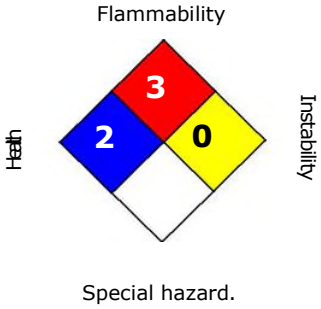
The components of this product are reported in the following inventories:

United States TSCA Inventory	:	y (positive listing) (On TSCA Inventory)
Canadian Domestic Substances List (DSL)	:	y (positive listing) (All components of this product are on the Canadian DSL.)
Australia Inventory of Chemical Substances (AICS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
New Zealand. Inventory of Chemical Substances	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Japan. ENCS - Existing and New Chemical Substances Inventory	:	n (Negative listing) (Not in compliance with the inventory)

Korea. Korean Existing Chemicals Inventory (KECI)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
China. Inventory of Existing Chemical Substances in China (IECSC)	:	y (positive listing) (On the inventory, or in compliance with the inventory)

SECTION 16. OTHER INFORMATION**Further information**

NFPA:



HMIS III:

HEALTH	**2***
FLAMMABILITY	**3**
PHYSICAL HAZARD	**0**

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 =Extreme, * = Chronic

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.

Legecy MSDS: R0377913

Material number:
542644, 131956, 82480, 145147, 99430

Key or legend to abbreviations and acronyms used in the safety data sheet			
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	Philipines 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 Compositon, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50		Lethal Concentration 50%	