To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrantee or guarantee the information. We provide vendor SDSs to assist our customers in their compliance efforts. The attached document is in compliance with one of the respective country regulatory requirements noted below:

The OSHA Hazard Communication Standard (in the United States)
The Hazardous Products Regulations (in Canada)

We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Product Stewardship Team
Zep Inc.

Safety Data Sheet
Wurth Clean Solv 3009

Version 0.0 Revision Date: 08/05/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Wurth Clean Solv 3009
Product Use Description : Solvent.

Manufacturer or supplier's details

Company : Nexeo Solutions LLC - STARTEX™
Address 3 Waterway Square Place Suite 1000
Woodlands, TX. 77380
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: msds@nexeosolutions.com
SDS Requests: 1-855-429-2661
SDS Requests Fax: 1-281-500-2370
Website: www.nexeosolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids	:	Category 2
Acute toxicity (Inhalation)	:	Category 3
Skin irritation	:	Category 2
Eye irritation	:	Category 2A
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system, Central nervous system)
Specific target organ toxicity - repeated exposure	:	Category 2 (Central nervous system, Peripheral nervous system, Liver, Kidney)
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2
Aspiration hazard	:	Category 1

GHS Label element

Hazard pictograms :

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
H373 May cause damage to organs (Central nervous system, Peripheral nervous system, Liver, Kidney) 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/sparks/open flames/hot surfaces. - 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/ protective clothing/ eye protection/ face protection.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician.

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 to extinguish.
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 2B: Possibly carcinogenic to humans	
	100-41-4	**Ethylbenzene
	98-82-8	**Cumene
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.	

Emergency Overview

Appearance	liquid
Colour	Clear, Colorless
Odour	aromatic
Hazard Summary	No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical Name	Concentration (%)
68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, lt dist hydrotreat process, low-boil AND/OR Naphtha (pet), hydrotreated lt AND/OR Solvent naphtha (pet), lt aliph.	70 - 90
1330-20-7	Mixed xylenes	20 - 30
100-41-4	**Ethylbenzene	5 - 10
111-65-9	**Octane	1 - 5
142-82-5	**Heptane	1 - 5
108-88-3	**Toluene	1 - 5
98-82-8	**Cumene	0.1 - 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.
Consult a physician.
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 : Call a physician or poison control centre immediately.
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	:	Carbon oxides
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 firefighting if necessary. Use personal protective equipment.

NFPA Flammable and Combustible Liquids Classification:
Flammable Liquid Class IB

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	:	Prevent unauthorized access. 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	Control parame-	Basis

		(Form of exposure)	ters / Permissi-ble concentra-tion	
68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, lt dist hy-drotreat process, low-boil AND/OR Naphtha (pet), hydrotreated lt AND/OR Solvent naphtha (pet), lt aliph.	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 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
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
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
111-65-9	**Octane	TWA	300 ppm	ACGIH
		TWA	75 ppm 350 mg/m3	NIOSH REL
		C	385 ppm 1,800 mg/m3	NIOSH REL
		TWA	500 ppm 2,350 mg/m3	OSHA Z-1
		TWA	300 ppm 1,450 mg/m3	OSHA P0
		STEL	375 ppm 1,800 mg/m3	OSHA P0
142-82-5	**Heptane	TWA	85 ppm 350 mg/m3	NIOSH REL
		C	440 ppm 1,800 mg/m3	NIOSH REL
		TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
		STEL	500 ppm 2,000 mg/m3	OSHA P0

		TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
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

Biological occupational exposure limits

Components	CAS-No.	Control parame-ters	Biological specimen	Sam-pling time	Permissi-ble con-centration	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-week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after expo-sure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of shift (As	0.3 mg/g Creatinine	ACGIH BEI

				soon as possible after expo-sure 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 : Avoid contact with skin, eyes and clothing.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: Clear, Colorless
Odour	: aromatic
Odour Threshold	: No data available
pH	: No data available
Freezing Point	: No data available

Boiling Point (Boiling point/boiling range)	:	120 - 144 °C (248 - 291 °F)
Flash point	:	15 °C (59 °F)
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Burning rate	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	1.2 %(V)
Vapour pressure	:	9.7 mmHg @ 20 °C (68 °F)
Relative vapour density	:	3.9(Air = 1.0)
Relative density	:	0.782 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	:	0.782 g/cm3 @ 20 °C (68 °F)
Bulk density	:	780.3561 kg/m3 @ 20 °C (68 °F)
Solubility(ies)		
Water solubility	:	Negligible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	287 °C
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	:	No hazards to be specially mentioned.

reactions

Conditions to avoid	:	Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Carbon oxides

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 : 936 ppm Exposure time: 4 h Test atmosphere: gas Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate : 3,912 mg/kg Method: Calculation method

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	:	Assessment: The component/mixture is toxic after short term inhalation.
Acute dermal toxicity	:	LD50 (Rabbit, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 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

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:
Species: Rabbit
Exposure time: 4 h
Result: Irritating to skin.

1330-20-7:
Species: Rabbit
Exposure time: 24 h
Result: Irritating to skin.

Serious eye damage/eye irritation

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:
Species: Rabbit
Result: Irritating to eyes.

1330-20-7:
Species: Rabbit
Result: Irritating to eyes.

Respiratory or skin sensitisation

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:
Test Type: Buehler Test
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.

1330-20-7:
Remarks: No data available

Germ cell mutagenicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

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

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	:	Not classifiable as a human carcinogen.

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Carcinogenicity - Assessment	:	Carcinogenicity classification not possible from current data.

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

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:
68410-97-9 / 64742-49-0 / 64742-89-8:
Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, 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:

68410-97-9 / 64742-49-0 / 64742-89-8:

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:

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

111-65-9:No data available

142-82-5:No data available

108-88-3:No data available

98-82-8:No data available

STOT - repeated exposure

Product: No data available

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Exposure routes:	Target Organs:	Assessment:	Remarks:
	Central nervous	The substance or	

	system, Peripheral nervous system	mixture is classified as specific target organ toxicant, repeated exposure, category 2.	

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

111-65-9: No data available

142-82-5: No data available

108-88-3: No data available

98-82-8: No data available

Repeated dose toxicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:
Species: Rat, male and female
NOAEL: 1402
Application Route: inhalation (vapour)
Test atmosphere: vapour
Exposure time: 13
Number of exposures: 6 hours/day, 5 day
Dose: 322,1402, 9869 mg/m3

GLP: yes
Target Organs: Kidney
Symptoms: Nasal and ocular discharge

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:

68410-97-9 / 64742-49-0 / 64742-89-8:
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.

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:
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:

68410-97-9 / 64742-49-0 / 64742-89-8:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 8.2 mg/l Exposure time: 96 h

Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.5 mg/l
Exposure time: 48 h
Test Type: Immobilization
Analytical monitoring: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7
Exposure time: 96 h
Test Type: static test

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 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 (microalgae)): 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:

68410-97-9 / 64742-49-0 / 64742-89-8:

Biodegradability : Concentration: 49.2 mg/l
Result: Readily biodegradable
Biodegradation: 77 %

Testing period: 2 d
Exposure time: 28 d

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

111-65-9:

Partition coefficient: n-octanol/water : log Pow: 5.15

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)

Mobility in soil

No data available

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.

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Additional ecological in- : An environmental hazard cannot be excluded in the

formation	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): UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II, Flash Point:15 °C(59 °F)

IMDG (International Maritime Dangerous Goods): UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II, Marine Pollutant (DISTILLATES (PETROLEUM), LIGHT DISTILLATE HYDROTREATING PROCESS, LOW-BOILING**,** MIXED XYLENES)

DOT (Department of Transportation): UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II

SECTION 15. REGULATORY INFORMATION

OSHA Hazards	:	Flammable liquid, Harmful by inhalation., Moderate skin irritant, Moderate eye irritant, Reproductive hazard, 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	356

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 (Delayed) Health Hazard
Immediate (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	8.5078 %
108-88-3	**Toluene	1.4778 %

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	28.12 %
100-41-4	**Ethylbenzene	8.5078 %
108-88-3	**Toluene	1.4778 %

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	28.12 %
100-41-4	**Ethylbenzene	8.5078 %
108-88-3	**Toluene	1.4778 %
71-43-2	**Benzene	0.0127 %
91-20-3	**Naphthalene	0.0071 %

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

1330-20-7	Mixed xylenes	28.12 %
100-41-4	**Ethylbenzene	8.5078 %
108-88-3	**Toluene	1.4778 %
71-43-2	**Benzene	0.0127 %
91-20-3	**Naphthalene	0.0071 %

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

100-41-4	**Ethylbenzene	8.5078 %
108-88-3	**Toluene	1.4778 %

US State Regulations

Massachusetts Right To Know

1330-20-7	Mixed xylenes	20 - 30 %
100-41-4	**Ethylbenzene	5 - 10 %

111-65-9	**Octane	1 - 5 %
142-82-5	**Heptane	1 - 5 %
108-88-3	**Toluene	1 - 5 %
71-43-2	**Benzene	0 - 0.1 %

Pennsylvania Right To Know

68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, lt dist hydrotreat process, low-boil AND/OR Naphtha (pet), hydrotreated lt AND/OR Solvent naphtha (pet), lt aliph.	70 - 90 %
1330-20-7	Mixed xylenes	20 - 30 %
100-41-4	**Ethylbenzene	5 - 10 %
111-65-9	**Octane	1 - 5 %
142-82-5	**Heptane	1 - 5 %
108-88-3	**Toluene	1 - 5 %
98-82-8	**Cumene	0.1 - 1 %
71-43-2	**Benzene	0 - 0.1 %

New Jersey Right To Know

68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, lt dist hydrotreat process, low-boil AND/OR Naphtha (pet), hydrotreated lt AND/OR Solvent naphtha (pet), lt aliph.	70 - 90 %
1330-20-7	Mixed xylenes	20 - 30 %
100-41-4	**Ethylbenzene	5 - 10 %
111-65-9	**Octane	1 - 5 %
142-82-5	**Heptane	1 - 5 %
108-88-3	**Toluene	1 - 5 %

California Prop 65

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

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

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

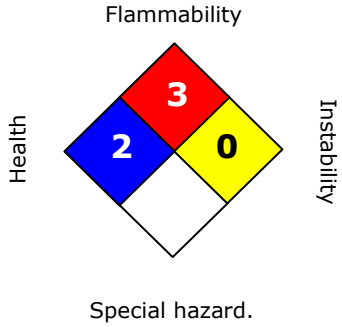
The components of this product are reported in the following inventories:

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: R0404929

Material number:
16056936, 16056935, 16056934

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%	