

Safety Data Sheet

MPK

Version 1.0

Date: 06/01/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : **MPK**
Product Use Description : Solvent.

Manufacturer or supplier's details

Company : Solvents and Petroleum Services, Inc.

Address 1405 Brewerton Rd, Syracuse, NY 13208
800-315-4467
mark@solventsandpetroleum.com

Emergency telephone number:

Transport North America: CHEMTREC 800.424.9300

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2
Acute toxicity (Oral) : Category 4
Eye irritation : Category 2A
Carcinogenicity : Category 2

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapor.
H303 May be harmful if swallowed.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.

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than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Emergency Overview

Appearance	liquid
Color	clear, colorless
Odor	fruit-like odor
Hazard Summary	No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical Name	Concentration (%)
107-87-9	2-Pentanone	90 - 100
108-10-1	Methyl isobutyl ketone	0 - 10

SECTION 4. FIRST AID MEASURES

- General advice : Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.
If unconscious place in recovery position and seek medical advice.
Consult a physician after significant exposure.
- In case of skin contact : Wash off with soap and water.
If on clothes, remove clothes.
Call a physician if irritation develops or persists.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

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Notes to physician : Treat symptomatically

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 fire-fighting if necessary.

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 vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

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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 vapors/dust. 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. Possible peroxide former. Do not allow to evaporate to near dryness; store away from light and heat. Store under nitrogen after opening. Periodically test product stored for long periods for peroxide formation. Addition of water or appropriate reducing materials will lessen peroxide formation.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of	Control parameters / Permissi-	Basis
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		exposure)	ble concentra- tion	
107-87-9	2-Pentanone	STEL	150 ppm	ACGIH
		TWA	150 ppm 530 mg/m ³	NIOSH REL
		TWA	200 ppm 700 mg/m ³	OSHA Z-1
		TWA	200 ppm 700 mg/m ³	OSHA P0
		STEL	250 ppm 875 mg/m ³	OSHA P0
108-10-1	Methyl isobutyl ketone	TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH
		TWA	50 ppm 205 mg/m ³	NIOSH REL
		ST	75 ppm 300 mg/m ³	NIOSH REL
		TWA	100 ppm 410 mg/m ³	OSHA Z-1
		TWA	50 ppm 205 mg/m ³	OSHA P0
		STEL	75 ppm 300 mg/m ³	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissi- ble con- centration	Basis
Methyl isobutyl ke- tone	108-10- 1	MIBK	In urine	End of shift (As soon as possible after expo- sure ceases)	1 mg/l	ACGIH BEI

Personal protective equipment

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

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

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

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	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
Color	: clear, colorless
Odor	: fruit-like odor
Odor Threshold	: 11 ppm
pH	: No data available
Freezing Point (Melting point/range)	: -78 °C (-108 °F)
Boiling Point (Boiling point/boiling range)	: 101 °C (214 °F)
Flash point	: 7.8 °C (46.0 °F)
Evaporation rate	: 2.3
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: 8.7 %(V)
Lower explosion limit	: 1.56 %(V)
Vapor pressure	: 27.75 mmHg @ 20 °C (68 °F)
Relative vapor density	: 2.9(Air = 1.0)

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Relative density	: 0.81 @ 20 °C (68 °F)
Density	: No data available
Bulk density	: No data available
Solubility(ies)	
Water solubility	: partly soluble
Solubility in other sol- vents	: No data available
Partition coefficient: n- octanol/water	: No data available
Auto-ignition temperature	: 449 °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 reactions	: No hazards to be specially mentioned.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources. Extremes of temperature and direct sunlight. Exposure to air. Do not allow evaporation to dryness.
Incompatible materials	: Strong oxidizing agents Acids Aldehydes Bases halogens oxidizers
Hazardous decomposition products	: carbon dioxide and carbon monoxide



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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : 541.1 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l
Exposure time: 4 h
Test atmosphere: vapor Method:
Calculation method

Components:

107-87-9:

Acute oral toxicity : LD50 (rat): 1,600 mg/kg
Method: Standard Acute
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (rat, male and female): > 25.5 mg/l
Exposure time: 4 h
Test atmosphere: vapor Method:
OECD Test Guideline 436
GLP: yes

Acute dermal toxicity : Remarks: No data available

108-10-1:

Acute oral toxicity : LD50 (rat): 2,080 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (rat): 10 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity



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Skin corrosion/irritation

Components:

107-87-9:

Species: guinea pig
Method: In vivo
Result: No skin irritation

108-10-1:

Species: rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

Serious eye damage/eye irritation

Product:

Remarks: Irritating to eyes.

Components:

107-87-9:

Species: rabbit
Result: Irritating to eyes.
Method: In vivo

108-10-1:

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

Respiratory or skin sensitisation

Components:

107-87-9:

Remarks: No data available

108-10-1:

Test Type: Maximisation Test (GPMT)
Species: guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

107-87-9:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro



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Test species: Chinese hamster ovary (CHO) Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Germ cell mutagenicity-Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

108-10-1:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Test species: mouse
Cell type: Bone marrow
Application Route: Intraperitoneal
Exposure time: 12 - 48 h Method: OECD Test Guideline 474 Result: negative
GLP: yes

Germ cell mutagenicity-Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Components:

107-87-9:

Remarks: This information is not available.

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

108-10-1:

Species: rat, (male and female)
Application Route: inhalation (vapor)
Exposure time: 2 yrs
Dose: 0, 450, 900, 1800 ppm
Frequency of Treatment: 6 h/d, 5 d/wk
NOAEL: 450 ppm

Method: OECD Test Guideline 451
Result: Evidence of renal carcinogenesis that is not relevant to humans
GLP: yes



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Carcinogenicity - Assessment : Suspected human carcinogens

Reproductive toxicity

Components:

107-87-9:

Effects on fertility : Test Type: Screening test
Species: rat, male and female
Application Route: inhalation (vapor)
Dose: 0, 1, 2.5, 5 mg/l
General Toxicity - Parent: NOAEL: 5 mg/l
General Toxicity F1: NOAEL: 5 mg/l
Fertility: NOAEL: 5 mg/l
Method: OECD Test Guideline 421
Result: No effects on fertility and early embryonic development were detected.
GLP: yes

Effects on foetal development : Remarks: No data available

Reproductive toxicity - Assessment : No toxicity to reproduction
teratogenicity classification is not possible

108-10-1:

Effects on fertility : Test Type: Two-generation study
Species: rat, male and female
Application Route: inhalation (vapor)
Dose: 0, 500, 1000, 2000 ppm
Duration of Single Treatment: 6 h
Frequency of Treatment: 7 days/week
General Toxicity - Parent: NOAEC: 1,000 ppm
General Toxicity F1: NOAEC: 1,000 ppm
Fertility: NOAEC: 2,000 ppm
Symptoms: Maternal effects. sedation
Method: OECD Test Guideline 416
Result: Animal testing did not show any effects on fertility.

Effects on foetal development : Species: rat
Application Route: inhalation (vapor)
Dose: 0, 300, 1000, 3000 ppm
Duration of Single Treatment: 10 d
Frequency of Treatment: 6 hr/day
General Toxicity Maternal: NOAEC: 1,000 ppm
Teratogenicity: NOAEC: 3,000 ppm
Symptoms: Maternal toxicity, Specific developmental abnormalities., Reduced body weight, Reduced num-

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ber of viable fetuses.
Method: OECD Test Guideline 414
Result: No teratogenic effects.
GLP: yes

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.

STOT - single exposure

Product:No data available

Components:

107-87-9:No data available

108-10-1:

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

STOT - repeated exposure

Product:No data available

Components:

107-87-9:No data available

108-10-1:No data available

Repeated dose toxicity

Components:

107-87-9:

Remarks: This information is not available.

Repeated dose toxicity - Assessment : Harmful if swallowed., Causes serious eye irritation.

108-10-1:

Species: rat, male and female

NOAEL: 250 mg/kg

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Application Route: Oral
Exposure time: 13 wks
Number of exposures: 7 d/wk
Dose: 0, 50, 250, 1000 mg/kg bw/day
Method: OECD Test Guideline 408
GLP: yes
Symptoms: Kidney disorders
Remarks: male rat hydrocarbon nephropathy not relevant to humans

Aspiration toxicity

Components:

107-87-9:

No aspiration toxicity classification

108-10-1:

No aspiration toxicity classification

Further information

Product:

Remarks: Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

107-87-9:

- | | |
|---|--|
| Toxicity to fish | : LC50 (Pimephales promelas (fathead minnow)): 1,240 mg/l
Exposure time: 96 h
Test Type: flow-through test |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 110 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes |
| Toxicity to algae | : EC50 (Pseudokirchneriella subcapitata (Selenastrum capricornutum)): > 150 mg/l
End point: Biomass
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201 |

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GLP: yes

108-10-1:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 179 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 200 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 400 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
- Ecotoxicology Assessment
Acute aquatic toxicity : This product has no known ecotoxicological effects.
- Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

Components:

108-10-1:

- Biodegradability : Inoculum: activated sludge
Biodegradation: 83 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Readily biodegradable
- Biochemical Oxygen Demand (BOD) : 1,940 mg/g
- Chemical Oxygen Demand (COD) : 2,160 mg/g
- Theoretical Oxygen Demand (ThOD) : 0.00272 mg/g

Bioaccumulative potential

Components:

107-87-9:

- Partition coefficient: n- : log Pow: 0.857 (20 °C)



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octanol/water

pH: 7

108-10-1:

Bioaccumulation

: Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-
octanol/water

: Pow: 24
log Pow: Calculated 1.9

Mobility in soil

Components:

108-10-1:

Stability in soil

: Remarks: Not expected to adsorb 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

: No data available

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.

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SECTION 14. TRANSPORT INFORMATION

IATA (International Air Transport Association): UN1224, KETONES, LIQUID, N.O.S., (2-PENTANONE, METHYL ISOBUTYL KETONE), 3, II, Flash Point: 7.8 °C (46.0 °F)

IMDG (International Maritime Dangerous Goods): UN1224, KETONES, LIQUID, N.O.S., (2-PENTANONE, METHYL ISOBUTYL KETONE), 3, II

DOT (Department of Transportation): UN1224, KETONES, LIQUID, N.O.S., (2-PENTANONE, METHYL ISOBUTYL KETONE), 3, II

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable liquid, Carcinogen, Moderate eye irritant, Moderate respiratory irritant

WHMIS Classification : B2: Flammable liquid
D1B: Toxic Material Causing Immediate and Serious Toxic Effects
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)
Methyl isobutyl ketone	108-10-1	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

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

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

108-10-1	Methyl isobutyl ketone	10 %
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Clean Air Act

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

108-10-1 Methyl isobutyl ketone 10 %

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

108-10-1 Methyl isobutyl ketone 10 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

107-87-9 2-Pentanone 90 - 100 %
108-10-1 Methyl isobutyl ketone 0 - 10 %

Pennsylvania Right To Know

107-87-9 2-Pentanone 90 - 100 %
108-10-1 Methyl isobutyl ketone 0 - 10 %

New Jersey Right To Know

107-87-9 2-Pentanone 90 - 100 %
108-10-1 Methyl isobutyl ketone 0 - 10 %

California Prop 65

108-10-1 Methyl isobutyl ketone
WARNING! This product contains a chemical known to the State of California to cause cancer.

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)

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Japan. ENCS - Existing and New Chemical Substances Inventory	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Japan. ISHL - Inventory of Chemical Substances (METI)	:	y (positive listing) (On the inventory, or 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)
Switzerland. New notified substances and declared preparations	:	y (positive listing) (The formulation contains substances listed on the Swiss Inventory)

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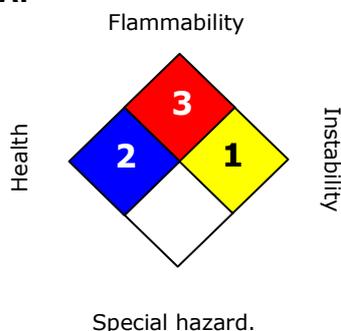
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SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	1

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.

Material number:

16040134, 71436, 56463, 73135, 104972, 507835, 20702, 20700, 16006329, 87644, 55937, 20701

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



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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%