

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : P I Solvent 1 REV 1
Product Use Description : Industrial chemical

Manufacturer or supplier's details

Company : Nexeo Solutions LLC
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
Eye irritation : Category 2A
Germ cell mutagenicity : Category 1B
Carcinogenicity : Category 2
Reproductive toxicity : Category 2
Specific target organ toxicity - single exposure : Category 1 (Eyes, Central nervous system)

GHS Label element

Hazard pictograms :



Signal word : Danger

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Hazard statements : H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H370 Causes damage to organs (Eyes, Central nervous system).

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.
P270 Do not eat, drink or smoke when using this product.
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:
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.
P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

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

108-10-1

Methyl isobutyl ketone

64742-49-0

Naphtha (petroleum), hydrotreated light

64742-89-8

Solvent naphtha (petroleum), light aliph.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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	white
Odour	hydrocarbon-like
Hazard Summary	No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Hazardous components

CAS-No.	Chemical Name	Concentration (%)
141-78-6	Ethyl acetate	70 - 90
64-17-5	Ethanol	20 - 30
67-56-1	Methanol	1 - 5
108-10-1	Methyl isobutyl ketone	0.1 - 1
64742-49-0	Naphtha (petroleum), hydrotreated light	0.1 - 1
142-82-5	Heptane	0 - 1
64742-89-8	Solvent naphtha (petroleum), light aliph.	0 - 1

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
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 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 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

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

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 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.
-------------------------	-------------------------------

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

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.
 Container may be opened only under exhaust ventilation hood.
 Open drum carefully as content may be under pressure.
 Dispose of rinse water in accordance with local and national regulations.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
141-78-6	Ethyl acetate	TWA	400 ppm	ACGIH
		TWA	400 ppm 1,400 mg/m ³	NIOSH REL
		TWA	400 ppm 1,400 mg/m ³	OSHA Z-1
		TWA	400 ppm 1,400 mg/m ³	OSHA P0
64-17-5	Ethanol	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1
		TWA	1,000 ppm	OSHA P0

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

			1,900 mg/m3	
		STEL	1,000 ppm	ACGIH
67-56-1	Methanol	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
		STEL	250 ppm 325 mg/m3	OSHA P0
		TWA	200 ppm 260 mg/m3	OSHA P0
108-10-1	Methyl isobutyl ketone	TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH
		TWA	50 ppm 205 mg/m3	NIOSH REL
		ST	75 ppm 300 mg/m3	NIOSH REL
		TWA	100 ppm 410 mg/m3	OSHA Z-1
		TWA	50 ppm 205 mg/m3	OSHA P0
		STEL	75 ppm 300 mg/m3	OSHA P0
64742-49-0	Naphtha (petroleum), hydrotreated light	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 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
64742-89-8	Solvent naphtha (petroleum), light aliph.	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
------------	---------	--------------------	---------------------	---------------	---------------------------	-------

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI
Methyl isobutyl ketone	108-10-1	MIBK	In urine	End of shift (As soon as possible after exposure ceases)	1 mg/l	ACGIH BEI

Personal protective equipment

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

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

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

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

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Colour	: white
Odour	: hydrocarbon-like
Odour Threshold	: No data available
pH	: No data available
Freezing Point	: No data available
Boiling Point (Boiling point/boiling range)	: 77 °C (171 °F) Calculated Phase Transition Liquid/Gas
Flash point	: -4 °C (25 °F)
Evaporation rate	: 1 Ethyl Ether
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: 19 %(V) GLP: Calculated Explosive Limit
Lower explosion limit	: 2.2 %(V) GLP: Calculated Explosive Limit
Vapour pressure	: 17.50 mmHg @ 25 °C (77 °F) Calculated Vapor Pressure
Relative vapour density	: 1AIR=1
Relative density	: 0.8745 @ 23.33 °C (73.99 °F)
Density	: 0.8745 g/cm ³ @ 23.33 °C (73.99 °F)
Bulk density	: No data available
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

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	: Vapours may form explosive mixture with air.
Conditions to avoid	: Extremes of temperature and direct sunlight. Heat, flames and sparks.
Incompatible materials	: Alkali metals Ammonia Oxidizing agents peroxides Strong acids

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 : > 40 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method

Components:

141-78-6:

Acute oral toxicity	: LD50 (rat): 5,620 mg/kg
Acute inhalation toxicity	: LD L0 (rat, male and female): > 22.5 mg/l Exposure time: 6 h Test atmosphere: vapour

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.
Remarks: Not classified

Acute dermal toxicity : LD50 (rabbit): > 20,000 mg/kg

64-17-5:

Acute oral toxicity : LD50 (rat): 7,060 mg/kg

Acute inhalation toxicity : LC50 (rat): 124.7 mg/l

Acute dermal toxicity : Remarks: No data available

67-56-1:

Acute oral toxicity : LD50 (rat): 100 mg/kg
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (rat): 5 mg/l
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (rabbit): 300 mg/kg
Assessment: The component/mixture is toxic after single contact with skin.

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: vapour
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

64742-49-0:

Acute oral toxicity : LD50 (rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Acute inhalation toxicity : LC50 (rat, male and female): > 5610 mg/ m3
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: yes
Assessment: The component/mixture is low toxic after short term inhalation.

Acute dermal toxicity : LD50 (rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

142-82-5:

Acute oral toxicity : LD50 (rat, male and female): 5,000 mg/kg
Method: OECD Test Guideline 401
Symptoms: Salivation
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (rat, male and female): 73.5 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

64742-89-8:

Acute oral toxicity : LD50 (rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : Assessment: The component/mixture is low toxic after short term inhalation.
Remarks: No data available

Acute dermal toxicity : LD50 (rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation in susceptible persons.

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Components:

141-78-6:

Species: rabbit

Result: Mild skin irritation

64-17-5:

Species: rabbit

Result: Mild skin irritation

67-56-1:

Species: rabbit

Result: No skin irritation

108-10-1:

Species: rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

64742-49-0:

Species: rabbit

Result: Irritating to skin.

142-82-5:

Species: rabbit

Exposure time: 24 h

Method: OECD Test Guideline 404

Result: Irritating to skin.

GLP: yes

Remarks: Based on a similar product formulation.

64742-89-8:

Species: rabbit

Exposure time: 4 h

Result: Irritating to skin.

Serious eye damage/eye irritation

Product:

Remarks: Irritating to eyes.

Components:

141-78-6:

Species: rabbit

Result: Irritating to eyes.

64-17-5:

Species: rabbit

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Result: Irritating to eyes.

67-56-1:

Species: rabbit

Result: No eye irritation

108-10-1:

Species: rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

GLP: yes

64742-49-0:

Species: rabbit

Result: Irritating to eyes.

142-82-5:

Species: rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

GLP: yes

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

64742-89-8:

Species: rabbit

Result: Irritating to eyes.

Respiratory or skin sensitisation

Components:

141-78-6:

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

64-17-5:

Test Type: lymph node assay

Species: mouse

Method: OECD Test Guideline 429

GLP: No data available

Remarks: Did not cause sensitisation on laboratory animals.

67-56-1:

Test Type: Maximisation Test (GPMT)

Species: guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

108-10-1:

Test Type: Maximisation Test (GPMT)

Species: guinea pig

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

64742-49-0:

Test Type: Buehler Test

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

142-82-5:

Test Type: Maximization test

Species: guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

Remarks: Based on a similar product formulation.

64742-89-8:

Test Type: Buehler Test

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

141-78-6:

Genotoxicity in vitro	: Test Type: Ames test
	Test species: Salmonella typhimurium
	Metabolic activation: with and without metabolic activation
	Method: OECD Test Guideline 471
	Result: negative
	GLP: No data available
	: Test Type: Chromosome aberration test in vitro
	Test species: Chinese hamster ovary (CHO)
	Metabolic activation: with and without metabolic activation
	Method: OECD Test Guideline 473
	Result: negative
	GLP: No data available
Genotoxicity in vivo	: Test Type: In vivo micronucleus test
	Test species: Chinese hamster (male and female)
	Application Route: Oral
	Dose: 2500 mg/kg bw
	Method: OECD Test Guideline 474
	Result: negative
	GLP: No data available
Germ cell mutagenicity-Assessment	: Animal testing did not show any mutagenic effects.

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

64-17-5:

Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay
Test species: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: No data available

Genotoxicity in vivo : Test Type: Dominant lethal assay
Test species: mouse (male)
Application Route: Oral
Dose: 10 or 40% ethanol in water
Method: OECD Test Guideline 478
Result: negative
GLP: No data available

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

67-56-1:

Genotoxicity in vitro : Test Type: DNA damage and/or repair
Metabolic activation: with and without metabolic activation
Result: Ambiguous

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Test species: mouse (male and female)
Cell type: Bone marrow
Application Route: Intraperitoneal
Exposure time: Single
Dose: 0, 1920, 3200, 4480 mg/kg
Result: negative

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

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

	<p>Exposure time: 12 - 48 h Method: OECD Test Guideline 474 Result: negative GLP: yes</p>
Germ cell mutagenicity-Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
64742-49-0:	
Genotoxicity in vitro	: Test Type: Mammalian cell gene mutation assay Test species: mouse lymphoma cells Method: OECD Test Guideline 476 Result: positive
Genotoxicity in vivo	: Test Type: DNA damage and/or repair Test species: mouse Result: positive
Germ cell mutagenicity-Assessment	: Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals
142-82-5:	
Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Test species: Rat liver Metabolic activation: Without metabolic activation Method: OECD Test Guideline 473 Result: negative
	: Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
Germ cell mutagenicity-Assessment	: Did not show mutagenic effects in animal experiments.
64742-89-8:	
Genotoxicity in vitro	: Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: positive GLP: No data available
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Test species: rat (male and female) Application Route: Inhalation Exposure time: 6 hours/day Dose: 0, 2000, 10000, 20000 mg/m3

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Result: positive

GLP: yes

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

Carcinogenicity

Components:

141-78-6:

Species: mouse, (male and female)

Application Route: Intraperitoneal injection

Exposure time: 8 wk

Dose: 150 and 750 mg/kg bw/injection

Frequency of Treatment: 3 days/week

Result: did not display carcinogenic properties

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

64-17-5:

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

67-56-1:

Carcinogenicity - Assessment : Suspected human carcinogens

108-10-1:

Species: rat, (male and female)

Application Route: inhalation (vapour)

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

Carcinogenicity - Assessment : Suspected human carcinogens

64742-49-0:

Species: mouse

NOAEL: 50 mg/kg bw/day

Method: OECD Test Guideline 451

Result: evidence of carcinogenic activity

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Carcinogenicity - Assessment : Possible human carcinogen

142-82-5:

Remarks: This information is not available.

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

64742-89-8:

Carcinogenicity - Assessment : Possible human carcinogen

Reproductive toxicity

Components:

141-78-6:

Effects on fertility : Test Type: Two-generation study
Species: mouse, male and female
Application Route: Oral
Dose: 5, 10 and 15% v/v in water
General Toxicity - Parent: NOAEL: 15 % diet
General Toxicity F1: NOAEL: 10 % diet
Symptoms: reduced litter size
Method: OECD Test Guideline 416
GLP: No data available
Remarks: Information given is based on data obtained from similar substances.

Species: rat, male
Application Route: Inhalation
Dose: 350, 750, 1500 ppm
Duration of Single Treatment: 6 h
Frequency of Treatment: 5 days/week
General Toxicity - Parent: NOAEL: 1,500 ppm
Result: Animal testing did not show any effects on fertility.
GLP: yes

Effects on foetal development : Species: rat
Application Route: Inhalation
Dose: 10,000, 16,000 or 20,000 ppm
General Toxicity Maternal: NOAEL: 16,000 ppm
Teratogenicity: NOAEL: > 20,000 ppm
Symptoms: No malformations were observed.
Method: OECD Test Guideline 414
GLP: No data available
Remarks: Information given is based on data obtained from similar substances.

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Reproductive toxicity - Assessment	: No toxicity to reproduction Animal testing did not show any effects on foetal development.
64-17-5: Effects on fertility	: Test Type: Two-generation study Species: mouse, male and female Application Route: oral Dose: 5, 10 and 15% v/v in water General Toxicity - Parent: NOAEL: 15 % diet General Toxicity F1: NOAEL: 10 % diet Symptoms: reduced litter size Reduced sperm motility in F1 generation Method: OECD Test Guideline 416 GLP: No data available
Effects on foetal development	: Species: rat Application Route: Inhalation Dose: 10,000, 16,000 or 20,000 ppm General Toxicity Maternal: NOAEL: 16,000 ppm Teratogenicity: NOAEL: > 20,000 ppm Symptoms: No malformations were observed. Method: OECD Test Guideline 414 GLP: No data available
Reproductive toxicity - Assessment	: Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.
67-56-1: Effects on fertility	: Test Type: Two-generation study Species: rat, male and female Application Route: Inhalation Dose: 0, 0.013, 0.13, 1.3 mg/L Duration of Single Treatment: 20 h General Toxicity - Parent: NOAEC: 1.3 mg/l General Toxicity F1: NOAEC: 0.13 mg/l Fertility: NOAEC: 1.3 mg/l Symptoms: Effects on postnatal development. Result: Animal testing did not show any effects on fertility.
Effects on foetal development	: Species: rat Application Route: inhalation (vapour) Dose: 0, 6.65, 13.3, 26.6 mg/L Duration of Single Treatment: 20 d Frequency of Treatment: 7 hr/day General Toxicity Maternal: NOAEC: 13.3 mg/L Teratogenicity: NOAEC: 6.65 mg/L Result: Teratogenic effects.

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

108-10-1:

Effects on fertility : Test Type: Two-generation study
Species: rat, male and female
Application Route: inhalation (vapour)
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 (vapour)
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 number 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.

64742-49-0:

Reproductive toxicity - Assessment : Fertility classification not possible from current data.
Embryotoxicity classification not possible from current data.

142-82-5:

Effects on fertility : Test Type: Two-generation study
Species: rat, male and female
Application Route: vapour
Dose: 0, 900, 3000, 9000 ppm
Frequency of Treatment: 5 days/week
General Toxicity - Parent: NOAEC: 3,000 ppm
General Toxicity F1: NOAEC: 3,000 ppm

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Fertility: NOAEC: 9,000 ppm
Symptoms: Reduced maternal body weight gain. Reduced offspring weight gain.
Method: OECD Test Guideline 416
Result: No reproductive effects.
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Effects on foetal development : Species: mouse
Application Route: inhalation (vapour)
Dose: 0, 900, 3000, 9000 ppm
Duration of Single Treatment: 10 d
Frequency of Treatment: 6 hr/day
General Toxicity Maternal: NOAEC: 900 ppm
Developmental Toxicity: NOAEC: 3,000 ppm
Symptoms: Skeletal malformations.
Method: OECD Test Guideline 414
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.
Embryotoxicity classification not possible from current data.

64742-89-8:
Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

STOT - single exposure

Product: No data available

Components:

141-78-6:

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.	

64-17-5:

Exposure routes:	Target Organs:	Assessment:	Remarks:
------------------	----------------	-------------	----------

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

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.	
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.	

67-56-1:

Exposure routes:	Target Organs:	Assessment:	Remarks:
	Eyes, Central nervous system	Causes damage to organs., The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.	

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.	

64742-49-0:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or	

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

		mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	
--	--	---	--

142-82-5:

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

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.	

STOT - repeated exposure

Product:No data available

Components:

141-78-6:No data available

64-17-5:No data available

67-56-1:No data available

108-10-1:No data available

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

64742-49-0:No data available

142-82-5:No data available

64742-89-8:No data available

Repeated dose toxicity

Components:

141-78-6:

Species: rat, male and female
NOAEL: 900 mg/kg
LOAEL: 3,600 mg/kg
Application Route: Oral
Exposure time: 90-92 d
Number of exposures: daily
Dose: 0, 300, 900 and 3600 mg/kg bw
GLP: yes

Species: rat, male and female
NOAEL: 350 ppm
Application Route: Inhalation
Exposure time: 94 d
Number of exposures: 6 h/d, 5 d/wk
Dose: 0, 350, 750, 1500 ppm
Symptoms: Local irritation

64-17-5:

Species: rat, male and female
NOAEL: 10 ml/kg
Application Route: Oral
Exposure time: 7 or 14 wk
Number of exposures: 2 times/d, 7 d/wk
Dose: 5, 10, 20ml/kg of 16.25% etoh
Method: OECD Test Guideline 408
GLP: yes

67-56-1:

Species: mouse, male and female
NOAEL: 1.3 mg/l
Application Route: Inhalation
Exposure time: 12 mths
Number of exposures: Continuous
Dose: 0, 0.013, 0.13, 1.3 mg/L

108-10-1:

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Species: rat, male and female
 NOAEL: 250 mg/kg
 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

64742-49-0:

Species: rat, male
 NOAEL: < 500 mg/kg
 Application Route: Oral
 Exposure time: 4 wk
 Number of exposures: 5 d/wk
 Dose: 500 or 2000 mg/kg/day
 Symptoms: nephropathy

142-82-5:

Species: rat, male
 NOAEL: 12470 mg/m³
 Application Route: inhalation (vapour)
 Exposure time: 16 wks
 Number of exposures: 12 h/d, 7 d/wk
 Dose: 0, 12470 mg/3

Repeated dose toxicity - : Causes skin irritation.
 Assessment

64742-89-8:

Species: rat, male and female
 NOAEL: 1402
 Application Route: inhalation (vapour)
 Test atmosphere: vapour
 Exposure time: 13 weeks
 Number of exposures: 6 hours/day, 5 days/week
 Dose: 322, 1402, 9869 mg/m³
 GLP: yes
 Target Organs: Kidney
 Symptoms: Nasal and ocular discharge

Aspiration toxicity

Components:

141-78-6:

No aspiration toxicity classification

64-17-5:

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

No aspiration toxicity classification

108-10-1:

No aspiration toxicity classification

64742-49-0:

May be fatal if swallowed and enters airways.

142-82-5:

Aspiration Toxicity - Category 1

64742-89-8:

Aspiration Toxicity - Category 1

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:

141-78-6:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 220 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,300 mg/l
Exposure time: 24 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 4,300 mg/l
Exposure time: 24 h

64-17-5:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 15,300 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and : EC50 (Ceriodaphnia dubia): 5,012 mg/l

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

other aquatic invertebrates

Exposure time: 48 h
Test Type: static test

Toxicity to algae

: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: No data available

67-56-1:

Toxicity to fish

: LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae

: EC50 (Scenedesmus capricornutum (fresh water algae)): 22,000 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to bacteria

: IC50 (activated sludge): > 1,000 mg/l
End point: Growth rate
Exposure time: 3 h
Test Type: Static
Method: OECD Test Guideline 209

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

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

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.

64742-49-0:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.5 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.71 mg/l
Exposure time: 96 h

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

142-82-5:

Toxicity to fish : LC50 (Carassius auratus (goldfish)): 4 mg/l
Exposure time: 24 h
Remarks: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.5 mg/l
Exposure time: 48 h
Test Type: static test
Remarks: Very toxic to aquatic organisms.

Toxicity to algae : Remarks: No data available

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

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

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

brates	Test Type: Immobilization Analytical monitoring: yes
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7 mg/l 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.

Persistence and degradability

Components:

141-78-6:

Biodegradability	: anaerobic Inoculum: activated sludge Result: Readily biodegradable.
------------------	---

64-17-5:

Biodegradability	: Result: Readily biodegradable.
------------------	----------------------------------

67-56-1:

Biodegradability	: aerobic Result: Readily biodegradable. Biodegradation: 72 % Remarks: Readily biodegradable
------------------	---

Biochemical Oxygen Demand (BOD)	: 600 - 1,120 mg/g
---------------------------------	--------------------

Chemical Oxygen Demand (COD)	: 1,420 mg/g
------------------------------	--------------

BOD/COD	: BOD: 600 - 1120COD: 1420
---------	----------------------------

Stability in water	: Hydrolysis: 91 % at 19 °C (72 h) Remarks: Hydrolyses on contact with water. Hydrolyses readily.
--------------------	---

108-10-1:

Biodegradability	: Inoculum: activated sludge Biodegradation: 83 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Readily biodegradable
------------------	---

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Biochemical Oxygen Demand (BOD) : 1,940 mg/g

Chemical Oxygen Demand (COD) : 2,160 mg/g

Theoretical Oxygen Demand (ThOD) : 0.00272 mg/g

64742-49-0:

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 20 mg/l
Biodegradation: 74.30 %
Exposure time: 56 d
GLP: yes
Remarks: Inherently biodegradable.

142-82-5:

Biodegradability : Primary biodegradation
Inoculum: activated sludge
Concentration: 100 mg/l
Biodegradation: 100 %
Testing period: 2 d
Exposure time: 25 d
Remarks: Readily biodegradable

64742-89-8:

Biodegradability : Concentration: 49.2 mg/l
Result: Readily biodegradable.
Biodegradation: 77 %
Testing period: 2 d
Exposure time: 28 d
GLP: yes

Bioaccumulative potential

Components:

141-78-6:

Partition coefficient: n-octanol/water : log Pow: 0.68 (25 °C)
pH: 7

64-17-5:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

67-56-1:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 1.0
Exposure time: 72 d

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

Temperature: 20 °C
Concentration: 5 mg/l
Remarks: This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Partition coefficient: n-octanol/water : log Pow: -0.77

108-10-1:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Pow: 24
log Pow: Calculated 1.9

64742-49-0:

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

64742-89-8:

Partition coefficient: n-octanol/water : log Pow: 2.13 - 4.85 (25 °C)

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 information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful 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.

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

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): UN1993, FLAMMABLE LIQUID, N.O.S., (ETHYL ACETATE, METHANOL) , 3, II, Flash Point:-4 °C(25 °F)

IMDG (International Maritime Dangerous Goods): UN1993, FLAMMABLE LIQUID, N.O.S., (ETHYL ACETATE, METHANOL), 3, II

DOT (Department of Transportation): UN1993, Flammable liquids, n.o.s., (ETHYL ACETATE, METHANOL), 3, II

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable liquid, Carcinogen, Toxic by ingestion, Toxic by skin absorption, Mild skin irritant, Moderate eye irritant, Moderate respiratory irritant, Teratogen, Reproductive hazard

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Ethyl acetate	141-78-6	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

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

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:

67-56-1	Methanol	1.0959 %
---------	----------	----------

Clean Air Act

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

67-56-1	Methanol	1.0959 %
108-10-1	Methyl isobutyl ketone	0.2295 %
108-88-3	Toluene	0.0079 %
110-54-3	Hexane	0.0009 %
100-41-4	Ethylbenzene	0.0197 PPM
71-43-2	Benzene	0.0197 PPM

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

141-78-6	Ethyl acetate	77.6535 %
64-17-5	Ethanol	21.9195 %
67-56-1	Methanol	1.0959 %
108-10-1	Methyl isobutyl ketone	0.2295 %
110-82-7	Cyclohexane	0.0154 %
108-88-3	Toluene	0.0079 %
100-41-4	Ethylbenzene	0.00 %
71-43-2	Benzene	0.00 %

Clean Water Act

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

110-82-7	Cyclohexane	0.0154 %
108-88-3	Toluene	0.0079 %
100-41-4	Ethylbenzene	0.0197 PPM
71-43-2	Benzene	0.0197 PPM

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

110-82-7	Cyclohexane	0.0154 %
108-88-3	Toluene	0.0079 %
100-41-4	Ethylbenzene	0.0197 PPM
71-43-2	Benzene	0.0197 PPM

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

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

141-78-6	Ethyl acetate	70 - 90 %
64-17-5	Ethanol	20 - 30 %
67-56-1	Methanol	1 - 5 %

Pennsylvania Right To Know

141-78-6	Ethyl acetate	70 - 90 %
64-17-5	Ethanol	20 - 30 %
67-56-1	Methanol	1 - 5 %
108-10-1	Methyl isobutyl ketone	0.1 - 1 %
110-82-7	Cyclohexane	0 - 0.1 %

New Jersey Right To Know

141-78-6	Ethyl acetate	70 - 90 %
64-17-5	Ethanol	20 - 30 %
67-56-1	Methanol	1 - 5 %
108-10-1	Methyl isobutyl ketone	0.1 - 1 %
110-82-7	Cyclohexane	0 - 0.1 %

California Prop 65

	WARNING! This product contains a chemical known to the State of California to cause cancer.
108-10-1	Methyl isobutyl ketone
100-41-4	Ethylbenzene
71-43-2	Benzene
	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
67-56-1	Methanol
108-88-3	Toluene
71-43-2	Benzene

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

Switzerland. New notified substances and declared preparations	:	n (Negative listing) (The formulation contains substances listed on the Swiss Inventory)
United States TSCA Inventory	:	y (positive listing) (On TSCA Inventory)
Canadian Domestic Substances List (DSL)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Australia Inventory of Chemical Substances (AICS)	:	n (Negative listing) (Not in compliance)

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

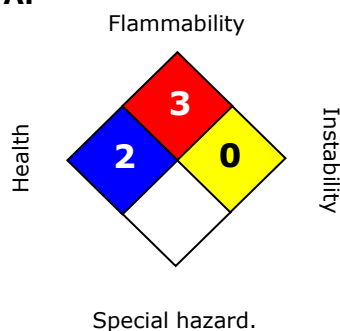
Revision Date: 11/17/2014

		with the inventory)
New Zealand. Inventory of Chemical Substances	:	n (Negative listing) (Not in compliance with the inventory)
Japan. ENCS - Existing and New Chemical Substances Inventory	:	n (Negative listing) (Not in compliance with the inventory)
Japan. ISHL - Inventory of Chemical Substances (METI)	:	n (Negative listing) (Not in compliance with the inventory)
Korea. Korean Existing Chemicals Inventory (KECI)	:	n (Negative listing) (Not in compliance with the inventory)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	:	n (Negative listing) (Not in compliance with the inventory)
China. Inventory of Existing Chemical Substances in China (IECSC)	:	n (Negative listing) (Not 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

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

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.

Legacy MSDS: R0402483

Material number:
591206,

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	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

Safety Data Sheet

P I Solvent 1 REV 1

Version 1.0

Revision Date: 11/17/2014

			Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50		Lethal Concentration 50%	