

Safety Data Sheet

Thinner 21112

Version 1.0

Revision Date: 08/11/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Thinner 21112
Product Use Description : Thinner
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
 Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

GHS Label element

Hazard pictograms :  

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statements : **Prevention:**
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 Keep container tightly closed.

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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.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep 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.
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 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

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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.

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Emergency Overview

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical Name	Concentration (%)
67-64-1	Acetone	50 - 70
109-60-4	Propyl acetate	10 - 20
64-17-5	Ethanol	10 - 20
123-86-4	n-Butyl acetate	10 - 20
108-65-6	Glycol ether PM acetate	5 - 10

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.

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If symptoms persist, call a physician.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: No hazardous combustion products are known
Specific extinguishing methods	: Use a water spray to cool fully closed containers.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for fire-fighting if necessary. Use personal protective equipment.

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.

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Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully 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
67-64-1	Acetone	TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH
		TWA	250 ppm 590 mg/m ³	NIOSH REL
		TWA	1,000 ppm	OSHA Z-1

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			2,400 mg/m ³	
		TWA	750 ppm 1,800 mg/m ³	OSHA P0
		STEL	1,000 ppm 2,400 mg/m ³	OSHA P0
109-60-4	Propyl acetate	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 840 mg/m ³	NIOSH REL
		ST	250 ppm 1,050 mg/m ³	NIOSH REL
		TWA	200 ppm 840 mg/m ³	OSHA Z-1
		TWA	200 ppm 840 mg/m ³	OSHA P0
		STEL	250 ppm 1,050 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 1,900 mg/m ³	OSHA P0
		STEL	1,000 ppm	ACGIH
123-86-4	n-Butyl acetate	TWA	150 ppm	ACGIH
		STEL	200 ppm	ACGIH
		ST	200 ppm 950 mg/m ³	NIOSH REL
		TWA	150 ppm 710 mg/m ³	NIOSH REL
		TWA	150 ppm 710 mg/m ³	OSHA Z-1
		TWA	150 ppm 710 mg/m ³	OSHA P0
		STEL	200 ppm 950 mg/m ³	OSHA P0
108-65-6	Glycol ether PM acetate	TWA	50 ppm	US WEEL

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Acetone	67-64-1	Acetone	Urine	End of shift (As soon as possible after	50 mg/l	ACGIH BEI

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Personal protective equipment

Respiratory protection	: No personal respiratory protective equipment normally required. In the case of vapour formation use a respirator with an approved filter.
Hand protection Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: Clear, Colorless
Odour	: Characteristic
Odour Threshold	: No data available
pH	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash point	: $\geq -20\text{ }^{\circ}\text{C}$ ($\geq -4\text{ }^{\circ}\text{F}$)
Evaporation rate	: No data available

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Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 0.826 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	: 0.826 g/cm ³ @ 20 °C (68 °F)
Bulk density	: No data available
Water solubility	: No data available
Solubility in other sol- vents	: No data available
Partition coefficient: n- octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No hazards to be specially mentioned.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources. Exposure to moisture Exposure to air.

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Incompatible materials : Alkali metals
Ammonia
Bases
Oxidizing agents
Peroxides
Reducing agents

Hazardous decomposition products : None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

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

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

Components:

67-64-1:

Acute oral toxicity : LD50 (Rat): 5,800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 76.0 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 : > 7,426 mg/kg

109-60-4:

Acute oral toxicity : LD50 (Rat, male): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): > 25 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit, male): > 17,800 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

123-86-4:

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- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 423
GLP: no
- Acute inhalation toxicity : LC50 (Rat, male and female): > 21 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: yes
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

108-65-6:

- Acute oral toxicity : LD50 (Rat): 8,532 mg/kg
- Acute inhalation toxicity : Remarks: No data available
- Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Components:

67-64-1:

Species: Rabbit
Exposure time: 24 h
Method: In vivo
Result: Mild skin irritation

109-60-4:

Species: Rabbit
Result: No skin irritation

64-17-5:

Species: Rabbit
Result: No skin irritation

123-86-4:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: no

108-65-6:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

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Serious eye damage/eye irritation

Components:

67-64-1:

Species: Rabbit
Result: Irritating to eyes.
Exposure time: 24 h

109-60-4:

Species: Rabbit
Result: Irritating to eyes.

64-17-5:

Species: Rabbit
Result: Irritating to eyes.

123-86-4:

Species: Rabbit
Result: No eye irritation
GLP: yes

108-65-6:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Components:

67-64-1:

Test Type: Maximization test
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.

109-60-4:

Test Type: Maximization test
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
Test substance: Information given is based on data obtained from similar substances.

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.

123-86-4:

Species: Guinea pig

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Result: Did not cause sensitisation on laboratory animals.

108-65-6:

Test Type: Maximization test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

GLP: no

Germ cell mutagenicity

Components:

67-64-1:

- | | |
|-----------------------|---|
| Genotoxicity in vitro | <ul style="list-style-type: none"> : Test Type: Mammalian cell gene mutation assay Test species: Mouse lymphoma cells Metabolic activation: Without metabolic activation Method: OECD Test Guideline 476 Result: negative |
| | <ul style="list-style-type: none"> : Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative |
| | <ul style="list-style-type: none"> : 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 |
| Genotoxicity in vivo | <ul style="list-style-type: none"> : Test Type: In vivo micronucleus test Test species: Mouse Application Route: Oral Exposure time: 13 wk Dose: 5,000, 10,000, 20,000 ppm Result: negative |

Germ cell mutagenicity-Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
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109-60-4:

- | | |
|-----------------------|--|
| Genotoxicity in vitro | <ul style="list-style-type: none"> : Test Type: Ames test Test species: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes |
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Germ cell mutagenicity-Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

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

123-86-4:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test species: Chinese hamster lung fibroblasts
Metabolic activation: 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: Mouse (male and female)
Application Route: Oral
Dose: 500, 1000, 2000 mg/kg bw
Method: OECD Test Guideline 474
Result: negative
GLP: yes
Test substance: Information given is based on data obtained from similar substances.

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

108-65-6:

Genotoxicity in vitro : Test Type: DNA damage and/or repair
Test species: rat hepatocytes
Metabolic activation: Without metabolic activation
Method: OECD Test Guideline 482

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Result: negative

GLP: yes

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

Carcinogenicity

Components:

67-64-1:

Species: Mouse, (female)

Application Route: Dermal

Exposure time: 365 d (90%) or 424 d (100%)

Dose: 0.1ml 90(71mg) or 100% (79mg)

Frequency of Treatment: 3 times per wk

NOAEL: 79

Result: did not display carcinogenic properties

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

109-60-4:

Remarks: This information is not available.

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

64-17-5:

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

123-86-4:

Remarks: This information is not available.

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

108-65-6:

Species: Rat, (male and female)

Application Route: inhalation (vapour)

Exposure time: 2 yr

Dose: 0, 300, 1000, 3000 ppm

Frequency of Treatment: 6 hr/d, 5 d/wk

NOAEL: No observed adverse effect level: 3,000 ppm

Method: OECD Test Guideline 453

Result: did not display carcinogenic properties

GLP: yes

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Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

67-64-1:

Effects on fertility : Species: Rat, male
Application Route: oral
Dose: 0, 5000, 10000 mg/L
Frequency of Treatment: 7 days/week
General Toxicity - Parent: LOAEL: 10,000
Fertility: 10,000

Effects on foetal development : Species: Rat
Application Route: Inhalation
Dose: 0, 440, 2200, 11000 ppm
Frequency of Treatment: 7 days/week
General Toxicity Maternal: NOAEC: 2,200 ppm
Teratogenicity: NOAEC: 11,000 ppm
Embryo-foetal toxicity: NOAEC: 2,200 ppm
Method: OECD Test Guideline 414
Result: No teratogenic potential
GLP: No data available

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

109-60-4:

Effects on fertility : Species: Rat, male and female
Application Route: Inhalation
Dose: 0, 750, 1500, 2000 ppm
Duration of Single Treatment: 6 h
Frequency of Treatment: 7 days/week
General Toxicity - Parent: NOAEC: 750 ppm
Fertility: NOAEC: 2,000 ppm
Early Embryonic Development: NOAEC: 750 ppm
Method: OECD Test Guideline 416
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Effects on foetal development : Species: Rat
Application Route: Inhalation
Dose: 0, 8730, 17460 and 24940 mg/m
Duration of Single Treatment: 18 d
Frequency of Treatment: 7 hr/day
General Toxicity Maternal: NOAEC: 8,730 mg/m³
Developmental Toxicity: NOAEC: 8,730 mg/m³

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	Method: OECD Test Guideline 414 GLP: No data available 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.
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.
123-86-4: Effects on fertility	: Species: Rat, male and female Application Route: Inhalation Dose: 0, 750, 1500, 2000 ppm Duration of Single Treatment: 6 h Frequency of Treatment: 7 days/week General Toxicity - Parent: NOAEC: 750 ppm General Toxicity F1: NOAEC: 750 ppm Fertility: NOAEC: 2,000 ppm Early Embryonic Development: NOAEC: 750 ppm Symptoms: Effect on reproduction capacity Method: OECD Test Guideline 416 GLP: yes
Effects on foetal development	: Species: Rat, male and female Application Route: vapour Dose: 500, 1500, 3000 ppm

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	Duration of Single Treatment: 6 h Frequency of Treatment: 5 days/week GLP: yes
Reproductive toxicity - Assessment	: Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.
108-65-6: Effects on fertility	: Species: Rat Application Route: Oral Dose: 0, 100, 300, 1000 mg/kg General Toxicity - Parent: NOAEL: 1,000 mg/kg bw General Toxicity F1: NOAEL: 1,000 mg/kg bw Method: OECD Test Guideline 422 Result: Animal testing did not show any effects on fertility. GLP: yes Remarks: Information given is based on data obtained from similar substances.
Effects on foetal development	: Species: Rat Application Route: Inhalation Dose: 0, 500, 2000, 4000 ppm Duration of Single Treatment: 9 d Frequency of Treatment: 6 hr/day General Toxicity Maternal: NOAEL: 500 ppm Teratogenicity: NOAEL: > 4,000 ppm GLP: yes
Reproductive toxicity - Assessment	: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure

Product: No data available

Components:

67-64-1:

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.	

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109-60-4:

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:
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.	

123-86-4:

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.	

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108-65-6: No data available

STOT - repeated exposure

Product: No data available

Components:

67-64-1: No data available

109-60-4: No data available

64-17-5: No data available

123-86-4: No data available

108-65-6: No data available

Repeated dose toxicity

Components:

67-64-1:

Species: Mouse, male

NOAEL: 20000

Application Route: Oral

Exposure time: 13 wk

Number of exposures: daily

Dose: 1250, 2500, 5000, 10000, 20000

Method: OECD Test Guideline 408

GLP: No data available

Species: Mouse, female

NOAEL: 20000

LOAEL: 50000

Application Route: Oral

Exposure time: 13 wk

Number of exposures: daily

Dose: 2500, 5000, 10000, 20000, 5000

Method: OECD Test Guideline 408

GLP: No data available

Repeated dose toxicity - Assessment : Causes mild skin irritation., Causes serious eye irritation.

109-60-4:

Species: Rat, male and female

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NOAEL: 2.35 mg/l
Application Route: inhalation (vapour)
Exposure time: 13 wk
Number of exposures: 6 h/d, 5 d/wk
Dose: 0, 2.35, 7.05 and 14.1 mg/L
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

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

123-86-4:

Species: Rat, male and female
NOAEL: 500
Application Route: inhalation (vapour)
Exposure time: 13 wk
Number of exposures: 6 h/d, 5d/wk
Dose: 500, 1500, 3000 ppm
GLP: yes
Symptoms: oral or nasal discharge

108-65-6:

Species: Rat, male and female
NOAEL: > 1,000 mg/kg
Application Route: Oral
Dose: 0, 100, 300, 1000 mg/kg
Method: OECD Test Guideline 422

Aspiration toxicity

Components:

109-60-4:

No aspiration toxicity classification

64-17-5:

No aspiration toxicity classification

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause nar-

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cotic effects., Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

67-64-1:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 6,100 mg/l
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7,630 mg/l
Exposure time: 48 h
Test substance: Acetone

Toxicity to algae : Remarks: No data available

109-60-4:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 60 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 91.5 mg/l
Exposure time: 48 h
Test Type: Immobilization

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 672 mg/l
Exposure time: 72 h

Ecotoxicology Assessment
Acute aquatic toxicity : Harmful to aquatic life.

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

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 other aquatic invertebrates : EC50 (Ceriodaphnia dubia): 5,012 mg/l
Exposure time: 48 h
Test Type: static test

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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

123-86-4:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 18 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD Test Guideline 203
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 44 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 674.7 mg/l
End point: Growth rate
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 23 mg/l
Exposure time: 21 d

Toxicity to bacteria : EC 50 (Tetrahymena pyriformis (Ciliate)): 356 mg/l
Exposure time: 40 h
Test Type: Static

Ecotoxicology Assessment
Acute aquatic toxicity

: Harmful to aquatic life.

Chronic aquatic toxicity

: Harmful to aquatic life with long lasting effects.

108-65-6:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 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)): 500 mg/l
Exposure time: 48 h
Test Type: Immobilization

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Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): > 1,000 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

67-64-1:

Biodegradability : Remarks: Readily biodegradable

109-60-4:

Biodegradability : Inoculum: activated sludge
Concentration: 100 mg/l
Result: Readily biodegradable
Biodegradation: 80 %
Exposure time: 10 d

64-17-5:

Biodegradability : Result: Readily biodegradable

123-86-4:

Biodegradability : Biodegradation: 83 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

Chemical Oxygen Demand (COD) : 0.00169 mg/g

BOD/COD : BOD/COD: 72 %

Theoretical Oxygen Demand (ThOD) : 0.0022 mg/g

108-65-6:

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 76.4 mg/l
Result: Readily biodegradable
Biodegradation: 90 %
Exposure time: 28 d
GLP: yes

Biochemical Oxygen De- : 0.36 mg/l

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mand (BOD)

Chemical Oxygen De- : 1.74 mg/l
mand (COD)

Bioaccumulative potential

Components:

67-64-1:

Partition coefficient: n- : log Pow: -0.24
octanol/water

64-17-5:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

123-86-4:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 15

Partition coefficient: n- : log Pow: 1.82
octanol/water

108-65-6:

Partition coefficient: n- : log Pow: 0.43
octanol/water

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 in- : No data available
formation

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local,

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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): UN1993, FLAMMABLE LIQUID, N.O.S., (ACETONE, PROPYL ACETATE), 3, II, Flash Point: $\geq -20^{\circ}\text{C}$ ($\geq -4^{\circ}\text{F}$)

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

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

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable liquid, Moderate eye irritant, Specific target organ toxicity - single exposure

WHMIS Classification : B2: Flammable liquid
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)
Acetone	67-64-1	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
Immediate (Acute) Health Hazard

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- SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

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

67-64-1	Acetone	51.6795 %
64-17-5	Ethanol	12.1139 %
123-86-4	n-Butyl acetate	11.7413 %

Clean Water Act

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

123-86-4	n-Butyl acetate	11.7413 %
75-07-0	Acetaldehyde	0.012 %
71-43-2	Benzene	0.0025 %

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

123-86-4	n-Butyl acetate	11.7413 %
75-07-0	Acetaldehyde	0.012 %
71-43-2	Benzene	0.0025 %

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

67-64-1	Acetone	50 - 70 %
109-60-4	Propyl acetate	10 - 20 %
64-17-5	Ethanol	10 - 20 %
123-86-4	n-Butyl acetate	10 - 20 %
75-07-0	Acetaldehyde	0 - 0.1 %
71-43-2	Benzene	0 - 0.1 %

Pennsylvania Right To Know

67-64-1	Acetone	50 - 70 %
109-60-4	Propyl acetate	10 - 20 %
64-17-5	Ethanol	10 - 20 %
123-86-4	n-Butyl acetate	10 - 20 %

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108-65-6	Glycol ether PM acetate	5 - 10 %
67-63-0	Isopropyl alcohol	0.1 - 1 %
75-07-0	Acetaldehyde	0 - 0.1 %

New Jersey Right To Know

67-64-1	Acetone	50 - 70 %
109-60-4	Propyl acetate	10 - 20 %
64-17-5	Ethanol	10 - 20 %
123-86-4	n-Butyl acetate	10 - 20 %
108-65-6	Glycol ether PM acetate	5 - 10 %

California Prop 65

	WARNING! This product contains a chemical known to the State of California to cause cancer.	
75-07-0	Acetaldehyde	
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	
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	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Korea. Korean Existing Chemicals Inventory (KECI)	:	y (positive listing) (On the inventory,

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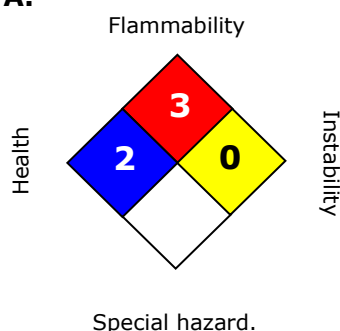
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		or in compliance with the inventory)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
China. Inventory of Existing Chemical Substances in China (IECSC)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

Legacy MSDS: 000000143330

Material number:
702243, 701803

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Gov-	LD50	Lethal Dose 50%

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