

## 1. Identification

**Product identifier** INSTRUMENT CLEAR NITRO

**Other means of identification**

**Product code** KUS NIT-23

**Recommended use** Industrial applications.

**Recommended restrictions** Professional use only

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company name** Custom Shop

**Address** 6635 Rasha St.  
San Diego, CA 92121  
United States

**Telephone** Customer Service (858) 909-2110

**Emergency phone number** CHEMTREC (800) 424-9300

## 2. Hazard(s) identification

**Physical hazards** Flammable liquids Category 2

**Health hazards** Acute toxicity, inhalation Category 4

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Sensitization, skin Category 1

Germ cell mutagenicity Category 1B

Carcinogenicity Category 1B

Reproductive toxicity Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated exposure Category 1

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**



**Signal word**

Danger

**Hazard statement**

Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

## Precautionary statement

### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection.

### Response

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

### Storage

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Hazard(s) not otherwise classified (HNOC)

None known.

### Supplemental information

44.96% of the mixture consists of component(s) of unknown acute inhalation toxicity.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
METHYL ISOBUTYL KETONE(MIBK)		108-10-1	20 - < 30
CELLULOSE NITRATE		9004-70-0	10 - < 20
METHYL ETHYL KETONE(MEK)		78-93-3	10 - < 20
DIMETHYLBENZENE (MIXED ISOMERS)		1330-20-7	5 - < 10
DIOCTYL PHTHALATE(DOP)		117-81-7	5 - < 10
ISOPROPYL ALCOHOL		67-63-0	5 - < 10
n-BUTYL ACETATE		123-86-4	5 - < 10
ETHYLBENZENE		100-41-4	1 - < 3
METHYL n-AMYL KETONE(MAK)		110-43-0	1 - < 3
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC		64742-95-6	1 - < 3
TOLUENE		108-88-3	< 0.2

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
<b>5. Fire-fighting measures</b>	
<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Highly flammable liquid and vapor.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.  Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.  Avoid discharge into drains, water courses or onto the ground.
<b>Environmental precautions</b>	

## 7. Handling and storage

<b>Precautions for safe handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)	PEL	435 mg/m <sup>3</sup>
		100 ppm
DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)	PEL	5 mg/m <sup>3</sup>
ETHYLBENZENE (CAS 100-41-4)	PEL	435 mg/m <sup>3</sup>
		100 ppm
ISOPROPYL ALCOHOL (CAS 67-63-0)	PEL	980 mg/m <sup>3</sup>
		400 ppm
METHYL ETHYL KETONE(MEK) (CAS 78-93-3)	PEL	590 mg/m <sup>3</sup>
		200 ppm
METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)	PEL	410 mg/m <sup>3</sup>
		100 ppm
METHYL n-AMYL KETONE(MAK) (CAS 110-43-0)	PEL	465 mg/m <sup>3</sup>
		100 ppm
n-BUTYL ACETATE (CAS 123-86-4)	PEL	710 mg/m <sup>3</sup>
		150 ppm

#### US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
TOLUENE (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm
DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)	TWA	5 mg/m <sup>3</sup>
ETHYLBENZENE (CAS 100-41-4)	TWA	20 ppm
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
METHYL ETHYL KETONE(MEK) (CAS 78-93-3)	STEL	300 ppm
	TWA	200 ppm
METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)	STEL	75 ppm
	TWA	20 ppm
METHYL n-AMYL KETONE(MAK) (CAS 110-43-0)	TWA	50 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value
n-BUTYL ACETATE (CAS 123-86-4)	STEL	200 ppm
	TWA	150 ppm
TOLUENE (CAS 108-88-3)	TWA	20 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)	STEL	10 mg/m3
	TWA	5 mg/m3
ETHYLBENZENE (CAS 100-41-4)	STEL	545 mg/m3
	TWA	125 ppm 435 mg/m3
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	100 ppm 1225 mg/m3
	TWA	500 ppm 980 mg/m3
METHYL ETHYL KETONE(MEK) (CAS 78-93-3)	STEL	400 ppm 885 mg/m3
	TWA	300 ppm 590 mg/m3
METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)	STEL	200 ppm 300 mg/m3
	TWA	75 ppm 205 mg/m3
METHYL n-AMYL KETONE(MAK) (CAS 110-43-0)	TWA	50 ppm 465 mg/m3
	STEL	100 ppm 950 mg/m3
n-BUTYL ACETATE (CAS 123-86-4)	TWA	200 ppm 710 mg/m3
	STEL	150 ppm 560 mg/m3
TOLUENE (CAS 108-88-3)	TWA	150 ppm 375 mg/m3
	STEL	100 ppm

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*
ETHYLBENZENE (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
ISOPROPYL ALCOHOL (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
METHYL ETHYL KETONE(MEK) (CAS 78-93-3)	2 mg/l	MEK	Urine	*
METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)	1 mg/l	Methyl isobutyl ketone	Urine	*
TOLUENE (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

\* - For sampling details, please see the source document.

**Exposure guidelines****US - California OELs: Skin designation**

TOLUENE (CAS 108-88-3)

Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

TOLUENE (CAS 108-88-3)

Skin designation applies.

**Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Chemical respirator with organic vapor cartridge and full facepiece.

**Skin protection****Hand protection**

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Other**

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection**

Chemical respirator with organic vapor cartridge and full facepiece.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

**9. Physical and chemical properties****Appearance****Physical state**

Liquid.

**Form**

Liquid.

**Color**

Light yellow.

**Odor**

Characteristic.

**Odor threshold**

Not available.

**pH**

Not available.

**Melting point/freezing point**

-138.82 °F (-94.9 °C) estimated

**Initial boiling point and boiling range**

96.8 °F (36 °C) estimated

**Flash point**

19.4 °F (-7.0 °C) estimated

**Evaporation rate**

Not available.

**Flammability (solid, gas)**

Not applicable.

**Upper/lower flammability or explosive limits****Flammability limit - lower (%)**

1.2 % estimated

<b>Flammability limit - upper (%)</b>	7.5 % estimated
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	32.96 hPa estimated
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	338 °F (170 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Density</b>	7.54 lbs/gal
<b>Explosive properties</b>	Not explosive.
<b>Flammability class</b>	Flammable IA estimated
<b>Oxidizing properties</b>	Not oxidizing.
<b>Percent volatile</b>	73 %
<b>Specific gravity</b>	0.91
<b>VOC</b>	5.54 lbs/gal (663.61 g/l) Coating VOC 5.54 lbs/gal (663.61 g/l) Material VOC

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong acids. Strong oxidizing agents. Nitrates. Halogens. Ammonia. Amines. Isocyanates. Caustics. Chlorine.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

### Information on toxicological effects

<b>Acute toxicity</b>	Harmful if inhaled. Narcotic effects. May cause an allergic skin reaction. May cause respiratory irritation.
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Components	Species	Test Results
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 43 g/kg
<b>Inhalation</b>		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
<b>Oral</b>		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg
DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Guinea pig	10 g/kg
	Rabbit	25 g/kg
<b>Oral</b>		
LD50	Guinea pig	26.3 g/kg
	Mouse	> 30 g/kg
	Rabbit	33.9 g/kg
	Rat	> 25 g/kg
ETHYLBENZENE (CAS 100-41-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	17800 mg/kg
<b>Oral</b>		
LD50	Rat	3500 mg/kg
ISOPROPYL ALCOHOL (CAS 67-63-0)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	12800 mg/kg
<b>Oral</b>		
LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
	Rabbit	5.03 g/kg
	Rat	4.7 g/kg
METHYL ETHYL KETONE(MEK) (CAS 78-93-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 8000 mg/kg
<b>Inhalation</b>		
LC50	Mouse	11000 ppm, 45 Minutes
	Rat	11700 ppm, 4 Hours
<b>Oral</b>		
LD50	Mouse	670 mg/kg
	Rat	2300 - 3500 mg/kg
METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 16000 mg/kg



Components	Species	Test Results
<b>Inhalation</b>		
LC50	Rat	8.2 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	2080 mg/kg
METHYL n-AMYL KETONE(MAK) (CAS 110-43-0)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	12600 mg/kg
<b>Oral</b>		
LD50	Mouse	730 mg/kg
	Rat	1.67 g/kg
n-BUTYL ACETATE (CAS 123-86-4)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Wistar rat	160 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	14000 mg/kg
TOLUENE (CAS 108-88-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	12124 mg/kg 14.1 ml/kg
<b>Inhalation</b>		
LC50	Mouse	5320 ppm, 8 Hours 400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours
<b>Oral</b>		
LD50	Rat	2.6 g/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	May cause genetic defects.
<b>Carcinogenicity</b>	May cause cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.
DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)	2B Possibly carcinogenic to humans.
ETHYLBENZENE (CAS 100-41-4)	2B Possibly carcinogenic to humans.
METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)	2B Possibly carcinogenic to humans.
TOLUENE (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens**

DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)	Reasonably Anticipated to be a Human Carcinogen.
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<b>Reproductive toxicity</b>	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. May damage fertility or the unborn child.
<b>Specific target organ toxicity - single exposure</b>	May cause respiratory irritation. May cause drowsiness and dizziness.
<b>Specific target organ toxicity - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
<b>DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)</b>		
<b>Aquatic</b>		
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 7.711 - 9.591 mg/l, 96 hours
<b>DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)</b>		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> ) 0.133 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) > 0.2 mg/l, 96 hours > 0.2 mg/l, 96 hours
<b>ETHYLBENZENE (CAS 100-41-4)</b>		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) 7.5 - 11 mg/l, 96 hours
<b>ISOPROPYL ALCOHOL (CAS 67-63-0)</b>		
<b>Aquatic</b>		
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) > 1400 mg/l, 96 hours
<b>METHYL ETHYL KETONE(MEK) (CAS 78-93-3)</b>		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 4025 - 6440 mg/l, 48 hours
Fish	LC50	Sheepshead minnow ( <i>Cyprinodon variegatus</i> ) > 400 mg/l, 96 hours
<b>METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)</b>		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) 492 - 593 mg/l, 96 hours
<b>METHYL n-AMYL KETONE(MAK) (CAS 110-43-0)</b>		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) 126 - 137 mg/l, 96 hours
<b>n-BUTYL ACETATE (CAS 123-86-4)</b>		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) 17 - 19 mg/l, 96 hours
<b>TOLUENE (CAS 108-88-3)</b>		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon, silver salmon ( <i>Oncorhynchus kisutch</i> ) 8.11 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

<b>Partition coefficient n-octanol / water (log Kow)</b>	
DIMETHYLBENZENE (MIXED ISOMERS)	3.12 - 3.2
DIOCTYL PHTHALATE(DOP)	7.6
ETHYLBENZENE	3.15
ISOPROPYL ALCOHOL	0.05
METHYL ETHYL KETONE(MEK)	0.29
METHYL ISOBUTYL KETONE(MIBK)	1.38
METHYL n-AMYL KETONE(MAK)	1.98
n-BUTYL ACETATE	1.78
TOLUENE	2.73

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

#### DOT

<b>UN number</b>	UN1263
<b>UN proper shipping name</b>	Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3
<b>Packing group</b>	II
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	149, B52, IB2, T4, TP1, TP8, TP28
<b>Packaging exceptions</b>	150
<b>Packaging non bulk</b>	173
<b>Packaging bulk</b>	242

#### IATA

<b>UN number</b>	UN1263
<b>UN proper shipping name</b>	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	3L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.

#### IMDG

<b>UN number</b>	UN1263
<b>UN proper shipping name</b>	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

**Transport hazard class(es)****Class** 3**Subsidiary risk** -**Packing group** II**Environmental hazards****Marine pollutant** No.**EmS** F-E, S-E**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.**DOT****IATA; IMDG****15. Regulatory information****US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**TSCA Chemical Action Plans, Chemicals of Concern**

DIOCTYL PHTHALATE(DOP) (CAS 117-81-7) Phthalates Action Plan

**CERCLA Hazardous Substance List (40 CFR 302.4)**

CELLULOSE NITRATE (CAS 9004-70-0) Listed.

DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7) Listed.

DIOCTYL PHTHALATE(DOP) (CAS 117-81-7) Listed.

ETHYLBENZENE (CAS 100-41-4) Listed.

ISOPROPYL ALCOHOL (CAS 67-63-0) Listed.

METHYL ETHYL KETONE(MEK) (CAS 78-93-3) Listed.

METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1) Listed.

n-BUTYL ACETATE (CAS 123-86-4) Listed.

TOLUENE (CAS 108-88-3) Listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
METHYL ISOBUTYL KETONE(MIBK)	108-10-1	20 - < 30
DIMETHYLBENZENE (MIXED ISOMERS)	1330-20-7	5 - < 10
DIOCTYL PHTHALATE(DOP)	117-81-7	5 - < 10
ISOPROPYL ALCOHOL	67-63-0	5 - < 10
ETHYLBENZENE	100-41-4	1 - < 3

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)  
 DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)  
 ETHYLBENZENE (CAS 100-41-4)  
 METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)  
 TOLUENE (CAS 108-88-3)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

METHYL ETHYL KETONE(MEK) (CAS 78-93-3) 6714  
 METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1) 6715  
 TOLUENE (CAS 108-88-3) 6594

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

METHYL ETHYL KETONE(MEK) (CAS 78-93-3) 35 %WV  
 METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1) 35 %WV  
 TOLUENE (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

METHYL ETHYL KETONE(MEK) (CAS 78-93-3) 6714  
 METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1) 6715  
 TOLUENE (CAS 108-88-3) 594

**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)  
 DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)  
 ETHYLBENZENE (CAS 100-41-4)  
 ISOPROPYL ALCOHOL (CAS 67-63-0)  
 METHYL ETHYL KETONE(MEK) (CAS 78-93-3)  
 METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)  
 SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC (CAS 64742-95-6)  
 TOLUENE (CAS 108-88-3)

**US. Massachusetts RTK - Substance List**

CELLULOSE NITRATE (CAS 9004-70-0)  
 DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)

DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)  
ETHYLBENZENE (CAS 100-41-4)  
ISOPROPYL ALCOHOL (CAS 67-63-0)  
METHYL ETHYL KETONE(MEK) (CAS 78-93-3)  
METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)  
METHYL n-AMYL KETONE(MAK) (CAS 110-43-0)  
n-BUTYL ACETATE (CAS 123-86-4)  
TOLUENE (CAS 108-88-3)

**US. New Jersey Worker and Community Right-to-Know Act**

CELLULOSE NITRATE (CAS 9004-70-0)  
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)  
DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)  
ETHYLBENZENE (CAS 100-41-4)  
ISOPROPYL ALCOHOL (CAS 67-63-0)  
METHYL ETHYL KETONE(MEK) (CAS 78-93-3)  
METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)  
METHYL n-AMYL KETONE(MAK) (CAS 110-43-0)  
n-BUTYL ACETATE (CAS 123-86-4)  
TOLUENE (CAS 108-88-3)

**US. Pennsylvania Worker and Community Right-to-Know Law**

CELLULOSE NITRATE (CAS 9004-70-0)  
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)  
DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)  
ETHYLBENZENE (CAS 100-41-4)  
ISOPROPYL ALCOHOL (CAS 67-63-0)  
METHYL ETHYL KETONE(MEK) (CAS 78-93-3)  
METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)  
METHYL n-AMYL KETONE(MAK) (CAS 110-43-0)  
n-BUTYL ACETATE (CAS 123-86-4)  
TOLUENE (CAS 108-88-3)

**US. Rhode Island RTK**

DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)  
DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)  
ETHYLBENZENE (CAS 100-41-4)  
ISOPROPYL ALCOHOL (CAS 67-63-0)  
METHYL ETHYL KETONE(MEK) (CAS 78-93-3)  
METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)  
n-BUTYL ACETATE (CAS 123-86-4)  
TOLUENE (CAS 108-88-3)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

BENZENE (CAS 71-43-2)	Listed: February 27, 1987
CUMENE (CAS 98-82-8)	Listed: April 6, 2010
DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)	Listed: January 1, 1988
ETHYLBENZENE (CAS 100-41-4)	Listed: June 11, 2004
METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)	Listed: November 4, 2011

**US - California Proposition 65 - CRT: Listed date/Developmental toxin**

BENZENE (CAS 71-43-2)	Listed: December 26, 1997
DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)	Listed: October 24, 2003
METHYL ISOBUTYL KETONE(MIBK) (CAS 108-10-1)	Listed: March 28, 2014
TOLUENE (CAS 108-88-3)	Listed: January 1, 1991

**US - California Proposition 65 - CRT: Listed date/Female reproductive toxin**

TOLUENE (CAS 108-88-3)	Listed: August 7, 2009
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**US - California Proposition 65 - CRT: Listed date/Male reproductive toxin**

BENZENE (CAS 71-43-2)	Listed: December 26, 1997
DIOCTYL PHTHALATE(DOP) (CAS 117-81-7)	Listed: October 24, 2003

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	11-17-2015
Version #	01
HMIS® ratings	Health: 2* Flammability: 3 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 3 Instability: 0

### NFPA ratings



### Disclaimer

The information contained herein is based on data supplied to us from sources believed to be reliable at the date of issue. Nothing herein shall be deemed to create any warranty of any kind, express or implied, concerning the accuracy or completeness of the information provided or the results to be obtained from the use thereof. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage, transportation, handling and disposal of the product in compliance with applicable federal, state and local laws and regulations. This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.