

SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID: IB-779120
Product Name: EnviroTop Zero 20
Revision Date: May 24, 2017 **Date Printed:** May 24, 2017
Version: 1.0 **Supersedes Date:** N.A.
Manufacturer's Name: Ceramic Industrial Coatings
Address: 325 Highway 81 Osseo, MN, US, 55369
Emergency Phone: Chemtrec: 1.800.424.9300
Information Phone Number: 763-424-2044
Fax:
Product/Recommended Uses: Paint or paint additive

SECTION 2) HAZARDS IDENTIFICATION

Classification

Specific Target Organ Toxicity -Single Exposure (Respiratory Tract Irritation) - Category 3
Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3
Skin Irritation - Category 2
Carcinogenicity - Category 2
Reproductive Toxicity - Category 2
Eye Irritation - Category 2
Acute aquatic toxicity - Category 3
Flammable Liquids - Category 2
Acute toxicity Oral - Category 5

Precautionary Statements - General

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.

Pictograms



Precautionary Statements - Disposal

Dispose of contents/container to disposal recycling center.
Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.
See recommendations in section 7 for handling and disposal of contaminated articles.

Hazardous Statements - Health

May cause respiratory irritation
May cause drowsiness or dizziness
Causes skin irritation
Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

Causes serious eye irritation

May be harmful if swallowed

Hazardous Statements - Physical

Highly flammable liquid and vapor

Hazardous Statements - Environmental

Harmful to aquatic life

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Keep container tightly closed.

Wash hands and face thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid release to the environment.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take action to prevent static discharges.

Precautionary Statements - Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor if you feel unwell.

IF ON SKIN: Wash with plenty of water.

Specific treatment (see details on this label).

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing. And wash it before reuse.

IF exposed or concerned: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

In case of fire: Use material listed in SDS section 5 to extinguish.

Precautionary Statements - Storage

Store in a well-ventilated place. Store in a well-ventilated place. Store locked up.

Store locked up.

Store in a well-ventilated place. Keep cool.

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0000123-86-4	BUTYL ACETATE	22% - 36%
0013463-67-7	TITANIUM DIOXIDE	21% - 34%
0000064-17-5	ETHYL ALCOHOL	9% - 18%

0066070-62-0	ALKYD RESIN	8% - 17%
0000067-63-0	ISOPROPYL ALCOHOL	0.4% - 4.6%
0009004-70-0	NITROCELLULOSE	0.4% - 4.5%
0007631-86-9	SILICA, AMORPHOUS	0.2% - 1.9%
0000108-83-8	DIISOBUTYL KETONE	0.2% - 1.8%
0021645-51-2	ALUMINUM HYDROXIDE	0.1% - 1.1%
0000071-36-3	N-BUTYL ALCOHOL	0.1% - 1.0%
0000110-43-0	METHYL N-AMYL KETONE	0.0% - 0.4%
0000701-64-4	MONOPHENYL PHOSPHORIC ACID	0.0% - 0.2%
0000100-41-4	ETHYLBENZENE	0.0% - 0.2%
0000109-60-4	N-PROPYL ACETATE	0.0% - 0.2%
0000095-47-6	O-XYLENE	0.0% - 0.1%
0000108-38-3	M-XYLENE	0.0% - 0.1%
0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	0.0% - 0.1%
0000106-42-3	P-XYLENE	0.0% - 0.1%
0001330-20-7	XYLENE	Trace
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	Trace
0000108-82-7	DIISOBUTYLCARBINOL (ODOR)	Trace
0000108-95-2	PHENOL	Trace
0000057-55-6	PROPYLENE GLYCOL	Trace
0000078-83-1	ISOBUTYL ALCOHOL	Trace
0000111-66-0	1-OCTENE	Trace
0000095-63-6	1,2,4-TRIMETHYLBENZENE	Trace
0012001-85-3	ZINC NAPHTHANATE	Trace
0000136-53-8	Hexanoic acid, 2-ethyl-, zinc salt	Trace
0064742-89-8	ALIPHATIC, LIGHT HYDROCARBON SOLVENT	Trace
0000108-67-8	MESITYLENE	Trace

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

Inhalation

Take precautions to ensure your own safety. (e.g. wear appropriate protective equipment. Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water for 15-20 minutes. If skin irritation or rash occurs: Get medical advice/attention. Store contaminated clothing under water and wash before re-use.

Eye Contact

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. If you feel unwell/concerned: Get medical advice/attention.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use dry chemical, foam or carbon dioxide to extinguish fire.

Unsuitable Extinguishing Media

Not available.

Fire-fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done so safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Care should always be exercised in dust/mist areas.

Use water to keep fire-exposed containers and the surroundings cool.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Recommended Equipment

Positive pressure, full-facepiece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Emergency Procedure

Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Collect with absorbent, non-combustible material into suitable containers.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

Environmental Precautions

Do not flush to sewer or waterways. Prevent release to the environment if possible.

SECTION 7) HANDLING AND STORAGE

General

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Storage Room Requirements

Keep in a cool, dry, well-ventilated area, away from any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 8) EXPOSURE CONTROLS/ PERSONAL PROTECTION

Eye Protection

Dust-proof goggles or safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. To prevent skin contact wear protective clothing covering all exposed areas. Avoid unnecessary skin contact.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
1,2,4-TRIMETHYLBENZENE								25	125			
ALIPHATIC, LIGHT HYDROCARBON SOLVENT	500	2000			1							
ALUMINUM HYDROXIDE												
AROMATIC HYDROCARBON MIXTURE >C9	500	2000			1							
BUTYL ACETATE	150	710			1			150	710	200	950	
DIISOBUTYL KETONE	50	290			1			25	150			
ETHYL ALCOHOL	1000	1900			1			1000	1900			
ETHYLBENZENE	100	435			1			100	435	125	545	
ISOBUTYL ALCOHOL	100	300			1			50	150			
ISOPARAFFINIC PETROLEUM DISTILLATE	500	2000			1							
ISOPROPYL ALCOHOL	400	980			1			400	980	500	1225	
MESITYLENE								25	125			
METHYL N-AMYL KETONE	100	465			1			100	465			
M-XYLENE	100	435			1			100	435	150	655	
N-BUTYL ALCOHOL	100	300			1							
N-PROPYL ACETATE	200	840			1			200	840	250	1050	
O-XYLENE	100	435			1			100	435	150	655	
PHENOL	5	19			1		1	5	19			
P-XYLENE	100	435			1			100	435	150	655	
SILICA, AMORPHOUS	20 (b)	80 mg/m3 percent SiO2+2			1,3				6			
TITANIUM DIOXIDE		15			1			b				1
XYLENE	100	435			1			100	435	150	655	

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH Notations	ACGIH TLV Basis
1,2,4-TRIMETHYLBENZENE							
ALIPHATIC, LIGHT HYDROCARBON SOLVENT							
ALUMINUM HYDROXIDE		1 (R)			A4	A4	Pneumococcosis; LRT irr; neurotoxicity

AROMATIC HYDROCARBON MIXTURE >C9							
BUTYL ACETATE	50		150				Eye & URT irr
DIISOBUTYL KETONE	25	145					URT & eye irr
ETHYL ALCOHOL			1000		A3	A3	URT irr
ETHYLBENZENE	20				A3	A3; BEI	URT irr; Kidney dam (nephropathy); Cochlear impair
ISOBUTYL ALCOHOL	50	152					Skin & eye irr
ISOPARAFFINIC PETROLEUM DISTILLATE							
ISOPROPYL ALCOHOL	200		400		A4	A4; BEI	Eye & URT irr; CNS impair
MESITYLENE							
METHYL N-AMYL KETONE	50	233					Eye & skin irr
M-XYLENE	100	434	150	651	A4	A4; BEI	URT & eye irr; CNS impair
N-BUTYL ALCOHOL	20						Eye & URT irr
N-PROPYL ACETATE	200	835	250	1040			Eye & URT irr
O-XYLENE	100	434	150	651	A4	A4; BEI	URT & eye irr; CNS impair
PHENOL	5	19			A4	Skin; A4; BEI	URT irr; lung dam; CNS impair
P-XYLENE	100	434	150	651	A4	A4; BEI	URT & eye irr; CNS impair
SILICA, AMORPHOUS							
TITANIUM DIOXIDE		10			A4	A4	LRT irr
XYLENE	100	434	150	651	A4	A4; BEI	URT & eye irr; CNS impair

(C) - Ceiling limit, (R) - Respirable fraction, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, dam - Damage, impair - Impairment, irr - Irritation, LRT - Lower respiratory tract, URT - Upper respiratory tract

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density	10.32220 lb/gal
% Solids By Weight	49.30840%
% VOC	50.65708%

Appearance	Liquid
Odor Description	Solvent

Odor Threshold	N.A.
pH	N.A.
Melting Point	N.A.
Freezing Point	N.A.
Low Boiling Point	N.A.
High Boiling Point	N.A.
Flash Point Symbol	N.A.
Flash Point	less than 50 °F
Evaporation Rate	N.A.
Flammability	N/A
Upper Explosion Level	N.A.
Lower Explosion Level	N.A.
Vapor Pressure	N.A.
Vapor Density	N.A.
Water Solubility	N.A.
Coefficient Water/Oil	N.A.
Auto Ignition Temp	N.A.
Decomposition Pt	N.A.
Viscosity	N.A.

SECTION 10) STABILITY AND REACTIVITY

Stability

Stable under normal conditions and use.

Conditions to Avoid

Avoid temperature above maximum storage temperature.

Avoid great heat, sparks, flame, build up of static electricity and contact with incompatible materials.

Hazardous Polymerization

Will not occur.

Incompatible Materials

Not available.

Hazardous Decomposition Products

No data available.

SECTION 11) TOXICOLOGICAL INFORMATION

Aspiration Hazard

No Data Available

Germ Cell Mutagenicity

No Data Available

Respiratory/Skin Sensitization

No Data Available

Specific Target Organ Toxicity - Repeated Exposure

No Data Available

Acute Toxicity

May be harmful if swallowed

Carcinogenicity

Reproductive Toxicity

Serious Eye Damage/Irritation

Causes serious eye irritation

Skin Corrosion/Irritation

Causes skin irritation

Specific Target Organ Toxicity - Single Exposure

May cause respiratory irritation

May cause drowsiness or dizziness

0000064-17-5 ETHYL ALCOHOL

LC50 (mouse): Approximately 21000 ppm (4-hour exposure); cited as 39 g/m3 (4-hour exposure) (1, unconfirmed)

LD50 (oral, rat): 7060 mg/kg (41); 10600 mg/kg (41); 13660 mg/kg (37)

LD50 (oral, mouse): 3450 mg/kg (1, unconfirmed)

LD50 (oral, guinea pig): 5560 mg/kg (37)

0000067-63-0 ISOPROPYL ALCOHOL

LC50 (rat): 17000 ppm (4-hour exposure); cited as 12000 ppm (8-hour exposure) (18)

LD50 (oral, male rat): 4710 mg/kg (cited as 6.0 mL/kg) (19)

LD50 (oral, mouse): 3600 mg/kg (20, unconfirmed)

LD50 (dermal, rabbit): 12870 mg/kg (cited as 16.4 mL/kg) (14)

0000071-36-3 N-BUTYL ALCOHOL

LC50 (rat): greater than 8000 ppm (4-hour exposure) (14)

LD50 (oral, rat): 2510 mg/kg (15)

LD50 (oral, male rat): 790 mg/kg (16)*

LD50 (oral, female rat): 2020 mg/kg (16)* *(Note: the rats used in this study appear to have been very young (60-100 grams).)

LD50 (oral, hamster): 1200 mg/kg (11, original)

0000078-83-1 ISOBUTYL ALCOHOL

LD50 (oral, rat): 2460 mg/kg.(7)

LD50 (oral, rabbit): 3000 mg/kg (reported as 41 mmol/kg) (8)

LD50 (dermal, rabbit): 3400 mg/kg (reported as 4.24 mL/kg).(7)

0000100-41-4 ETHYLBENZENE

LC50 (inhalation, rat): 4000 ppm; 4-hour exposure (3)

LD50 (oral, rat): 3.5 g/kg (1,3,5,10)

LD50 (oral, rat): 4.72 g/kg (3,5,7,8)

LD50 (dermal, rabbit): 17.8 g/kg (11)

0000123-86-4 BUTYL ACETATE

LC50 (rat): 1802 mg/m3; 4-hour exposure (aerosol)(9) Note: A lower LC50 (aerosol) value of 760 mg/m3 (160 ppm); 4-hour exposure has been reported.(11,27) Extensive research has failed to confirm this value.

LD50 (oral, rat): 10770 mg/kg (12, unconfirmed)

LD50 (oral, mouse): 7100 mg/kg (5)

LD50 (oral, rabbit): 7400 mg/kg (cited as 64 millimols/kg) (13)

LD50 (dermal, rabbit): Greater than 5000 mg/kg (3, unconfirmed)

0001330-20-7 XYLENE

LC50 (rat): 6350 ppm (4-hour exposure) (unspecified isomers and ethylbenzene) (1)LC50 (rat): 6700 ppm (4-hour exposure) (65% m-xylene, 7.6% o-xylene, 7.8% p-xylene, 19.3% ethylbenzene) (2) ethylbenzene) (1)

LC50 (rat): 6700 ppm (4-hour exposure) (65% m-xylene, 7.6% o-xylene, 7.8% p-xylene, 19.3% ethylbenzene)(2)

LD50 (oral, rat): 5400 mg/kg (52% m-, 19% o-, 24% p-) (1)LD50 (oral, female mouse): 5251 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)

LD50 (oral, male mouse): 5627 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)

LD50 (dermal, rabbit): 12180 mg/kg (m-xylene); greater than 1700 mg/kg (mixed xylenes - undefined composition) (3)

LD50 (oral, female mouse): 5251 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)

LD50 (oral, male mouse): 5627 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)

LD50 (dermal, rabbit): 12180 mg/kg (m-xylene); greater than 1700 mg/kg (mixed xylenes - undefined composition) (3)

0000095-63-6 1,2,4-TRIMETHYLBENZENE

LC50 (rat): 18 g/m3 (4-hour exposure) (1)

LD50 (oral, rat): 5 g/kg (1)

0000108-95-2 PHENOL

LD50 (oral, rat): 340 mg/kg (20% solution) (16)

LD50 (oral, rat): 530 mg/kg (2 and 5% solutions) (16)

LD50 (oral, rat): 320 mg/kg (cited as 0.30 cc/kg) (17)

LD50 (dermal, pig): 500 mg/kg (liquefied phenol (45 deg C)) (2/3 animals died) (18)

LD50 (derm

0000108-67-8 MESITYLENE

LC50 (rat): 24 g/m3 (4-hour exposure) (2)

0000110-43-0 METHYL N-AMYL KETONE

LC100 (rat): 4,000 ppm (4-hour exposure) (8)

LD50 (oral, female rat): 1,670 mg/kg (8)

LD50 (oral, mouse): 730 mg/kg (3; not confirmed)

LD50 (oral, mouse): 2,390 mg/kg; reported as 21.08 mmol/kg (7)

LD50 (dermal, rabbit): 10,300 mg/kg; reported as 12.6 mL/kg (8)

0000108-83-8 DIISOBUTYL KETONE

LD50 (oral, rat): 5800 mg/kg (1)

LD50 (oral, mouse): 1416 mg/kg (2; original report unpublished)

LD50 (oral, mouse): 2800 mg/kg (3)

LD50 (dermal, rabbit): 1600 mg/kg (1)

0000108-38-3 M-XYLENE

LC50 (rat): 7330 ppm (4-hour exposure); cited as 5984 ppm (6-hour exposure) (3,17)

LC50 (mouse): 6450 ppm (4-hour exposure); cited as 5267 ppm (6-hour exposure) (3)

LD50 (oral, rat): 5011 mg/kg (3); 6660 mg/kg (3)

LD50 (dermal, rabbit): 12180 mg/kg (3,17)

0000106-42-3 P-XYLENE

LC50 (rat): 4740 ppm (4-hour exposure) (3)

LC50 (mouse): 4800 ppm (4-hour exposure); cited as 3900 ppm (6-hour exposure) (1,4,6)

LD50 (oral, rat): 4030 mg/kg (3); 4550 mg/kg (10)

0000095-47-6 O-XYLENE

LC50 (rat): 5300 ppm (4-hour exposure); cited as 4330 ppm (6-hour exposure) (3)

LC50 (mouse): 5630 ppm (4-hour exposure); cited as 4595 ppm (6-hour exposure) (3,4)

LD50 (oral, rat): 3608 mg/kg (3,16)

LD50 (dermal, rabbit): 20000 mg/kg (3)

0000109-60-4 N-PROPYL ACETATE

LD50 (oral, rat): 8700 mg/kg; cited as 9.8 mL/kg (4)

LD50 (oral, mouse): 8300 mg/kg (5)

LD50 (oral, rabbit): 6600 mg/kg; cited as 65 mmols/kg (6)

LD50 (dermal, rabbit): Greater than 17700 mg/kg; cited as 20 mL/kg (4)

Chronic Exposure

0000100-41-4 ETHYLBENZENE

CARCINOGENIC EFFECTS: Ethyl Benzene has been listed by IARC as Group 2B, Possibly Carcinogenic to Humans.

TERATOGENIC EFFECTS: Ethyl Benzene has been Classified as POSSIBLE for humans.

0001330-20-7 XYLENE

High exposure to Xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus.

Xylene in high concentrations has caused embryotoxic effects in laboratory animals.

Potential Health Effects - Miscellaneous

0000064-17-5 ETHYL ALCOHOL

The following medical conditions may be aggravated by exposure: liver disease. Tests in some laboratory animals indicate this compound may have embryotoxic activity. Tests in animals demonstrate reproductive toxicity. Ingestion may cause any of the following: stupor (central nervous system depression), gastrointestinal irritation. If absorbed through the skin, may be: harmful.

0000067-63-0 ISOPROPYL ALCOHOL

The following medical conditions may be aggravated by exposure: dermatitis, respiratory disease. Developmental toxicity was seen in rat's offspring at doses that were maternally toxic. Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning. May cause injury to the cornea of the eyes. Prolonged or repeated exposure may cause damage to any of the following organs/systems: liver. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

0000071-36-3 N-BUTYL ALCOHOL

May cause abnormal blood forming function with anemia. Liquid splashes in the eye may result in chemical burns.

0000078-83-1 ISOBUTYL ALCOHOL

Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. May cause irritation of the mucous membranes. May cause abnormal liver function. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: bone marrow, liver. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns.

0000100-41-4 ETHYLBENZENE

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. WARNING: This chemical is known to the State of California to cause cancer.

0000108-83-8 DIISOBUTYL KETONE

The following medical conditions may be aggravated by exposure: asthma, blood, dermatitis. Contact may cause skin irritation with discomfort or rash. Repeated exposure may cause allergic skin rash, itching, swelling. This substance may cause damage to any of the following organs/systems: eyes, kidneys, liver. Extremely high oral and inhalation doses in laboratory animals have shown weight changes in various organs such as the liver, kidney, brain, heart and adrenal gland. In addition liver and kidney injury were observed at the extremely high inhalation level. In another inhalation study there was a slight depression in the white blood cell count. Liquid or vapor causes irritation, experienced as stinging, excess blinking and tear production, with excess redness and swelling of the conjunctiva.

0000123-86-4 BUTYL ACETATE

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

0001330-20-7 XYLENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

0009004-70-0 NITROCELLULOSE

The following medical conditions may be aggravated by overexposure: liver disease, kidney disorders.

0013463-67-7 TITANIUM DIOXIDE

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m³ respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m³ level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.

0064742-89-8 ALIPHATIC, LIGHT HYDROCARBON SOLVENT

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

0064742-95-6 AROMATIC HYDROCARBON MIXTURE >C9

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

SECTION 12) ECOLOGICAL INFORMATION

Toxicity

No data available.
Harmful to aquatic life

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No data available.

Bio-accumulative Potential

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

Contains constituents with the potential to bio accumulate.

Mobility in Soil

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

Floats on water. Contains volatile constituents. Evaporates within a day from water or soil surfaces. Large volumes may penetrate soil and could contaminate groundwater.

Persistence and Degradability

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

Expected to be inherently biodegradable. The volatile constituents will oxidize rapidly by photochemical reactions in air.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

SECTION 14) TRANSPORT INFORMATION

U.S. DOT InformationShipping Name: Paint related material
UN/NA #: 1263 Hazard Class:3 Packing Group: II
Required Label(s): Flammable
Placards: Combustible**IMDG Information**Shipping Name: Paint related material
UN/NA #: 1263 Hazard:3 Packing Group: II
Required Label(s): Combustible**IATA Information**Shipping Name: Paint related material
UN/NA #: 1263 Hazard:3 Packing Group: II
Required Label(s): Combustible

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0000123-86-4	BUTYL ACETATE	22% - 36%	CERCLA,SARA312,TSCA,MI_TOX,ND_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0013463-67-7	TITANIUM DIOXIDE	21% - 34%	SARA312,TSCA,CA_Carcinogen,ND_TOX,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA Proposition65_Type_Toxicity_Cancer,MN_ChemHighConcern - Minnesota Chemicals of High Concern list,MN_ChemHighConcern_HP_V_2006_3_of_4_years - Minnesota - Chemicals High Concern -High Production Volume (2006 and 3 of 4 years)
0000064-17-5	ETHYL ALCOHOL	9% - 18%	SARA312,TSCA,MI_TOX,ND_TOX,MN_ChemHighConcern - Minnesota Chemicals of High Concern list,MN_ChemHighConcern_HP_V_2006_3_of_4_years - Minnesota - Chemicals High Concern -High Production Volume (2006 and 3 of 4 years)
0066070-62-0	ALKYD RESIN	8% - 17%	SARA312,TSCA

0000067-63-0	ISOPROPYL ALCOHOL	0.4% - 4.6%	SARA312,TSCA,CA_TOX,MI_TOX,ND_TOX
0009004-70-0	NITROCELLULOSE	0.4% - 4.5%	SARA312,TSCA
0007631-86-9	SILICA, AMORPHOUS	0.2% - 1.9%	SARA312,TSCA,MI_TOX,ND_TOX
0000108-83-8	DIISOBUTYL KETONE	0.2% - 1.8%	SARA312,TSCA,MI_TOX,ND_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0021645-51-2	ALUMINUM HYDROXIDE	0.1% - 1.1%	SARA312,TSCA
0000071-36-3	N-BUTYL ALCOHOL	0.1% - 1.0%	SARA313, CERCLA,SARA312,TSCA,RCRA,CA_TOX,MI_TOX,ND_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0000110-43-0	METHYL N-AMYL KETONE	0.0% - 0.4%	SARA312,TSCA,MI_TOX,ND_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0000701-64-4	MONOPHENYL PHOSPHORIC ACID	0.0% - 0.2%	SARA312,TSCA,MI_TOX
0000100-41-4	ETHYLBENZENE	0.0% - 0.2%	SARA313, CERCLA,SARA312,TSCA,CA_TAC_TOX,CA_TOX,CA_Carcinogen,MI_TOX,MN_TOX,ND_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer,MN_ChemHighConcern - Minnesota Chemicals of High Concern list,MN_ChemHighConcern_HP_V_2006_3_of_4_years - Minnesota - Chemicals High Concern -High Production Volume (2006 and 3 of 4 years)
0000109-60-4	N-PROPYL ACETATE	0.0% - 0.2%	SARA312,TSCA,ND_TOX
0000095-47-6	O-XYLENE	0.0% - 0.1%	SARA313, CERCLA,SARA312,TSCA,RCRA,CA_TAC_TOX,CA_TOX,MI_TOX,MN_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0000108-38-3	M-XYLENE	0.0% - 0.1%	SARA313, CERCLA,SARA312,TSCA,RCRA,CA_TAC_TOX,CA_TOX,MI_TOX,MN_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS,MN_ChemHighConcern - Minnesota Chemicals of High Concern list,MN_ChemHighConcern_HP_V_2006_3_of_4_years - Minnesota - Chemicals High Concern -High Production Volume (2006 and 3 of 4 years)
0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	0.0% - 0.1%	SARA312,TSCA,MI_TOX
0000106-42-3	P-XYLENE	0.0% - 0.1%	SARA313, CERCLA,SARA312,TSCA,RCRA,CA_TAC_TOX,CA_TOX,MI_TOX,MN_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0001330-20-7	XYLENE	Trace	SARA313, CERCLA,SARA312,TSCA,RCRA,CA_TAC_TOX,MI_TOX,MN_TOX,ND_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS,MN_ChemHighConcern - Minnesota Chemicals of High Concern list,MN_ChemHighConcern_HP_V_2006_3_of_4_years - Minnesota - Chemicals High Concern -High Production Volume (2006 and 3 of 4 years)
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	Trace	SARA312,TSCA,MI_TOX
0000108-82-7	DIISOBUTYL CARBINOL (ODOR)	Trace	SARA312,TSCA
0000108-95-2	PHENOL	Trace	SARA313, CERCLA,SARA312,TSCA,RCRA,CA_TAC_TOX,CA_TOX,MI_TOX,MN_TOX,ND_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS,MN_ChemHighConcern - Minnesota Chemicals of High Concern list,MN_ChemHighConcern_HP_V_2006_3_of_4_years - Minnesota - Chemicals High Concern -High Production Volume (2006 and 3 of 4 years)
0000057-55-6	PROPYLENE GLYCOL	Trace	SARA312,TSCA,MI_TOX
0000078-83-1	ISOBUTYL ALCOHOL	Trace	CERCLA,SARA312,TSCA,RCRA,MI_TOX,ND_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0000111-66-0	1-OCTENE	Trace	SARA312,TSCA
0000095-63-6	1,2,4-TRIMETHYLBENZENE	Trace	SARA312,TSCA,CA_TOX,MI_TOX,MN_TOX
0012001-85-3	ZINC NAPHTHANATE	Trace	CERCLA,SARA312,TSCA,CA_TOX
0000136-53-8	Hexanoic acid, 2-ethyl-, zinc salt	Trace	CERCLA,SARA312,TSCA
0064742-89-8	ALIPHATIC, LIGHT HYDROCARBON SOLVENT	Trace	SARA312,TSCA,MI_TOX
0000108-67-8	MESITYLENE	Trace	SARA312,TSCA,MI_TOX,MN_TOX

Glossary

ACGIH: American Conference of Governmental Industrial Hygienists
 ANSI: American National Standards Institute
 Canadian TDG: Canadian Transportation of Dangerous Goods
 CAS: Chemical Abstract Service
 Chemtrec: Chemical Transportation Emergency Center (US)
 CHIP: Chemical Hazard Information and Packaging
 DSL: Domestic Substances List
 EC: Equivalent Concentration
 EH40 (UK): HSE Guidance Note EH40 Occupational Exposure Limits
 EPCRA: Emergency Planning and Community Right-To-Know Act
 HMIS: Hazardous Material Information Service
 LC: Lethal Concentration
 LD: Lethal Dose
 NFPA: National Fire Protection Association
 OEL: Occupational Exposure Limits OSHA: Occupational Safety and Health Administration, US Department of Labor
 PEL: Permissible Exposure Limit
 SARA (Title III): Superfund Amendments and Reauthorization Act
 SARA 313: Superfund Amendments and Reauthorization Act, Section 313
 SCBA: Self-Contained Breathing Apparatus
 STEL: Short Term Exposure Limit
 TLV: Threshold Limit Value
 TSCA: Toxic Substances Control Act Public Law 94-469
 TWA: Time Weighted Value
 US DOT: US Department of Transportation
 WHMIS: Workplace Hazardous Materials Information System

HMIS

Health	/ 2
FLAMMABILITY	3
Physical Hazard	0
Personal Protection	X

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

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