SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product ID: IX-7803C

Product Name: Vinyl Toner Base

Revision Date: Jun 08, 2018 Date Printed: Jun 08, 2018

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

Acute toxicity Oral - Category 5

Eye Irritation - Category 2A

Flammable Liquids - Category 2

Skin Irritation - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 2

Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3

Pictograms







Signal Word

Danger

Hazardous Statements - Physical

Highly flammable liquid and vapor

Hazardous Statements - Health

May be harmful if swallowed

Causes serious eye irritation

Causes mild skin irritation

May cause damage to organs through prolonged or repeated exposure.

May cause drowsiness or dizziness

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.

Precautionary Statements - Prevention

Wash hands and face thoroughly after handling.

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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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 action to prevent static discharges.

Do not breathe dust/fume/gas/mist/vapors/spray.

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

Use only outdoors or in a well-ventilated area.

Precautionary Statements - Response

Call a POISON CENTER or doctor if you feel unwell.

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.

If skin irritation occurs: Get medical advice/attention.

Get Medical advice/attention if you feel unwell.

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

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool.

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

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.

Acute toxicity of 7.59% of the mixture is unknown

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0000078-93-3	METHYL ETHYL KETONE	25% - 42%
0000067-64-1	ACETONE	22% - 36%
0000141-78-6	ETHYL ACETATE	17% - 28%
0000123-86-4	BUTYL ACETATE	0.3% - 3.8%
0000064-17-5	ETHYL ALCOHOL	0.2% - 2.0%
0000067-63-0	ISOPROPYL ALCOHOL	0.0% - 0.3%
0000109-60-4	N-PROPYL ACETATE	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 reuse.

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
ACETONE	1000	2400			1			250	590			
BUTYL ACETATE	150	710			1			150	710	200	950	
ETHYL ACETATE	400	1400			1			400	1400			
ETHYL ALCOHOL	1000	1900			1			1000	1900			
ISOPROPYL ALCOHOL	400	980			1			400	980	500	1225	
METHYL ETHYL KETONE	200	590			1			200	590	300	885	
N-PROPYL ACETATE	200	840			1			200	840	250	1050	

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH Notations	ACGIH TLV Basis
ACETONE	250		500		A4	A4; BEI	CNS impair; URT & eye irr
BUTYL ACETATE	50		150				Eye & URT

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							irr
ETHYL ACETATE	400	1440					URT & eye irr
ETHYL ALCOHOL			1000		A3	A3	URT irr
ISOPROPYL ALCOHOL	200		400		A4	A4;BEI	Eye & URT irr; CNS impair
METHYL ETHYL KETONE	200	590	300	885		BEI	URT irr; CNS & PNS impair
N-PROPYL ACETATE	200	835	250	1040			Eye & URT irr

⁽C) - Ceiling limit, 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, impair - Impairment, irr - Irritation, PNS - Peripheral nervous system, URT - Upper respiratory tract

7.13 lb/gal

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density

% Solids By Weight	7.60%
% VOC	63.67%
Appearance	Liquid
Odor Description	Solvent
Odor Threshold	N.A.
рН	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	-4 °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

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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

Skin Corrosion/Irritation

Causes mild skin irritation

Serious Eye Damage/Irritation

Causes serious eye irritation

Respiratory/Skin Sensitization

No Data Available

Germ Cell Mutagenicity

No Data Available

Carcinogenicity

No Data Available

Reproductive Toxicity

No Data Available

Specific Target Organ Toxicity - Single Exposure

May cause drowsiness or dizziness

Specific Target Organ Toxicity - Repeated Exposure

May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

Aspiration Hazard

No Data Available

Acute Toxicity

May be harmful if swallowed

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.

0000067-64-1 ACETONE

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause

damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

0000078-93-3 METHYL ETHYL KETONE

Material is irritating to mucous membranes and upper respiratory tract. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, eyes, respiratory system, skin. Prolonged or repeated overexposure may cause any of the following: conjunctivitis, dermatitis. High concentrations have caused embryotoxic effects in laboratory animals. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

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.

0000141-78-6 ETHYL ACETATE

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)

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: blood, kidneys, liver.

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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)
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)
0000141-78-6
                  ETHYL ACETATE
LC50 (rat): 19600 ppm (4-hour exposure); cited as 16000 ppm (6-hour exposure) (10)
LC50 (mouse): 10600 ppm (38100 mg/m3) (4-hour exposure); cited as 44000 mg/m3 (3-hour exposure) (8)
LD50 (oral, rat): 10200 mg/kg (cited as 11.3 mL/kg) (7); 5600 mg/kg (5,13)
LD50 (oral, mouse): 4100 mg/kg (11)
LD50 (oral, rabbit): 4900 mg/kg (9)
LD50 (oral, guinea pig): 5500 mg/kg (11)
LD50 (dermal, rabbit): Greater than 18000 mg/kg (cited as 20 m
0000067-64-1
                  ACFTONE
LC50 (male rat): 30000 ppm (4-hour exposure); cited as 71000 mg/m3 (4-hour exposure) (29)
LC50 (male mouse): 18600 ppm (4-hour exposure); cited as 44000 mg/m3 (4-hour exposure) (29)
LD50 (oral, female rat): 5800 mg/kg (24)
LD50 (oral, mature rat): 6700 mg/kg (cited as 8.5 mL/kg) (31)
LD50 (oral, newborn rat): 1750 mg/kg (cited as 2.2 mL/kg) (31)
LD50 (oral, mouse): 3000 mg/kg (32,unconfirmed)
LD50 (dermal, rabbit): Greater than 16000 mg/kg cited as 20 mL/kg) (30)
0000078-93-3
                  METHYL ETHYL KETONE
LC50 (male rat): 11,700 ppm (4-hour exposure) (3)
LC50 (male rat): 11,300 ppm (4-hour exposure); cited as 23.5 mg/L (7,990 ppm) (8-hour exposure) (4)
LD50 (oral, adult male rat): 2,740 mg/kg; cited as 3.4 mL/kg (1)
LD50 (dermal, rabbit): greater than 5,000 mg/kg (29)
                  N-PROPYL ACETATE
0000109-60-4
LD50 (oral, rat): 8700 mg/kg; cited as 9.8 mL/kg (4)
LD50 (oral, mouse): 8300 mg/kg (5)
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SECTION 12) ECOLOGICAL INFORMATION

Toxicity

No data available.

No Data Available

Persistence and Degradability

No data available.

0000067-64-1 ACETONE

91% readily biodegradable, Method: OECD Test Guideline 301B

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No data available.

Bio-accumulative Potential

0000067-64-1 ACETONE

Does not bioaccumulate

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 14) TRANSPORT INFORMATION

U.S. DOT Information

Shipping 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

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SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0000078-93-3	METHYL ETHYL KETONE	25% - 42%	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_HPV_2012_3_of_4_years - Minnesota - Chemicals High Concern - High Production Volume (2012 and 3 of 4 years)
0000067-64-1	ACETONE	22% - 36%	CERCLA,SARA312,VOC_exempt,TSCA,RCRA,MI_TOX,MN_TOX,ND_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0000141-78-6	ETHYL ACETATE	17% - 28%	CERCLA,SARA312,TSCA,RCRA,MI_TOX,ND_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0000123-86-4	BUTYL ACETATE	0.3% - 3.8%	CERCLA,SARA312,TSCA,MI_TOX,ND_TOX,WI_NR438 - WI_NR438 - AIR CONTAMINANT EMISSION INVENTORY REPORTING REQUIREMENTS
0000064-17-5	ETHYL ALCOHOL	0.2% - 2.0%	SARA312,TSCA,MI_TOX,ND_TOX,MN_ChemHighConcern - Minnesota Chemicals of High Concern list,MN_ChemHighConcern_HPV_2012_3_of_4_years - Minnesota - Chemicals High Concern - High Production Volume (2012 and 3 of 4 years)
0000067-63-0	ISOPROPYL ALCOHOL	0.0% - 0.3%	SARA312,TSCA,CA_TOX,MI_TOX,ND_TOX
0000109-60-4	N-PROPYL ACETATE	Trace	SARA312,TSCA,ND_TOX

SECTION 16) OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

Glossary

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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



(*) - 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

Version 1.0:

Revision Date: Jun 08, 2018

First Edition.

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