

SAFETY DATA SHEET

Randolph Products Company

MIL-PRF-23377K TYPE 1 CLASS C2 - GALLON

Date Printed: 12/17/2019

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1. Product and Company Identification

Product Name : MIL-PRF-23377K TYPE 1 CLASS C2 - GALLON

Product Code : 23377F12-GL

Recommended Use: Please refer to Product Information/Technical Data Sheet.

Company Identification:

Randolph Products Company
33 Haynes Circle
Chicopee, MA 01020

Information Phone: 413-592-4191

Emergency Phone: ChemTel 800-255-3924

2. Hazards Identification

EMERGENCY OVERVIEW

HAZARD CLASSIFICATION:

HIGHLY FLAMMABLE LIQUID & VAPOR, CATEGORY 2

ACUTE TOXICITY (ORAL), CATEGORY 4

SKIN IRRITATION, CATEGORY 2

EYE IRRITATION, CATEGORY 2B

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE, CATEGORY 3 (CENTRAL NERVOUS SYSTEM)

ASPIRATION HAZARD, CATEGORY 1

CARCINOGENICITY, CATEGORY 1

SIGNAL WORD:

DANGER



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HAZARD STATEMENTS:

HIGHLY FLAMMABLE LIQUID AND VAPOR
HARMFUL IF SWALLOWED
CAUSES SKIN IRRITATION
CAUSES EYE IRRITATION
MAY CAUSE DROWSINESS OR DIZZINESS
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
MAY CAUSE CANCER

PRECAUTIONARY STATEMENTS:

Keep away from heat, sparks, open flame/hot surfaces.
No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting and other equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Store/Use in a well ventilated place.
Keep cool.
Store locked up.
Wash hands thoroughly after handling.
Do not eat or drink while using this product.
Do not breathe vapors.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If swallowed, immediately call a poison control center.
Rinse mouth.
Wear protective gloves, protective clothing, eye/face protection.
If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs, seek medical advice.
Take off contaminated clothing and wash it before reuse.
If exposed or concerned, get medical advice or 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 attention.
In case of fire: Use dry chemical, CO₂, Halon or foam to extinguish.
Dispose of contents/container in accordance with all local, regional, national regulations. Do NOT induce vomiting.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Potential Health Effects

Eye:
Can cause eye irritation.

Skin:
Strontium Chromate may cause allergic reactions, nausea, vomiting, kidney damage, coma. Causes skin irritation.

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Ingestion:

If swallowed, call a poison control center or physician if you feel unwell. Rinse mouth.

Inhalation:

CONTAINS HEXAVALENT CHROMIUM. Chromates may cause nasal septum perforation. Hexavalent Chrome is listed as a carcinogen by the IARC and NTP and is on ACGIH's A1 list. Repeated, long term exposure to dust and mists in the chromate product industries is associated with an increase in respiratory tract cancer in humans. Prolonged inhalation may cause liver damage. Adverse effects to kidneys, blood system, heart/cardiovascular, respiratory, skin disorders and allergies, including immune system sensitization. May cause drowsiness or dizziness.

Chronic (Cancer) Information:

Hexavalent Chrome is listed as a carcinogen by the IARC and NTP and is on ACGIH's A1 list. Repeated, long term exposure to dust and mists in the chromate product industries is associated with an increase in respiratory tract cancer in humans.

IARC: A component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

ACGIH: A component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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

NTP: A component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Teratology (Birth Defects) Information:

INFORMATION NOT AVAILABLE.

Reproduction Information:

INFORMATION NOT AVAILABLE.

Aggravation of Pre-Existing Conditions:

Dermatitis or other skin conditions.

3. Composition/Information on Ingredients

Component	CAS#	% by Wt.
*+# METHYL ISOBUTYL KETONE ACGIH TLV: 50 PPM TWA	108-10-1	17.8

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ACGIH TLV: 75 PPM STEL		
OSHA PEL: 100 PPM TWA		
TALC	14807-96-6	15
ACGIH TLV: 2 MG/M3 TWA, RESPIRABLE DUST		
OSHA PEL: 20 MPPCF TWA		
*#+ STRONTIUM CHROMATE	7789-06-2	12.779
ACGIH TLV: 0.0005 mg/m3 -- as Cr		
ACGIH TLV: 0.01 mg/m3 -- Chromium (VI) insoluble cpds., as Cr		
OSHA PEL: 0.005 mg/m3 TWA, Chromium (VI)		
SILICA, AMORPHOUS	68855-54-9	8
ACGIH: 10 MG/M3 TWA - TOTAL DUST		
OSHA: 20 MPPCF TWA		
ACETONE	67-64-1	7
ACGIH TLV: 500 PPM TWA		
ACGIH TLV: 750 PPM STEL		
OSHA PEL: 1000 PPM TWA		
OSHA VPEL: 750 PPM TWA		
OSHA VPEL: 1000 PPM STEL		
# TITANIUM DIOXIDE	13463-67-7	3.007
ACGIH: 10 MG/M3 TWA		
OSHA: 10 MG/M3 TWA		
N-BUTYL ACETATE	123-86-4	2
ACGIH: 150 PPM TWA		
OSHA: 150 PPM TWA		
ACGIH: 200 PPM STEL		
OSHA: 200 PPM CEILING		
# ETHYL BENZENE	100-41-4	.142
ACGIH TLV 100 PPM - TWA		
OSHA PEL 100 PPM - TWA		
OSHA PEL 100 PPM - TWA		
OSHA PEL 125 PPM - CEILING		

4. First Aid Measures

Eyes:

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.

Skin:

If on skin: wash with plenty of soap & water. If skin irritation occurs: Get Medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Ingestion:

If swallowed: Immediately call a poison center/physician.

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Do NOT induce vomiting.

Inhalation:

If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison control center/get medical attention if you feel unwell.

Note to Physicians:

Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy. This product contains one or more heavy metals, or heavy metal-containing compounds. The appropriate treatment following heavy metal intoxication is specific; therefore, consult a poison control center.

5. Fire Fighting Measures

Flammable Properties:

Flash Point: -4 F Method: TCC

Explosive Limits:

Lower explosive limit: 1.0
Upper explosive limit: 12.8

Autoignition Temperature:

INFORMATION NOT AVAILABLE.

Hazardous Combustion Products:

Smoke, soot and carbon dioxide, carbon monoxide.

Extinguishing Media:

Dry chemical, CO₂, Halon, Foam

Firefighting Procedures:

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: High temperatures can cause sealed containers to rupture due to a build up of internal pressure. Cool with water spray. Vapors are heavier than air and can travel some distance away and flash back.

Sensitivity to Static Discharge: Material may accumulate a static charge which could act as an ignition source.

Precautions should be taken when pouring to minimize splash/free fall.

6. Accidental Release Measures

Small Spill:

See Information for Large Spill, below:

Large Spill:

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to

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safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental Precautions:
INFORMATION NOT AVAILABLE.

Methods/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/state/federal regulations.

7. Handling and Storage

Handling:

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/processing equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/eye protection/face protection.

Storage:

Prevent unauthorized access.
Store in a well ventilated place.
Keep container tightly closed.
Keep cool.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

SEE SECTION 3 FOR THIS INFORMATION

Engineering Controls:

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions.

Ventilation should be explosion proof.

Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, spray painting, mechanical generation of dusts, heating, drying, etc.

Personal Protective Equipment

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be

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worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 CFR 1152, January 8, 1998. Respirator type: Organic Vapor.

Skin Protection:

Wear impervious gloves to prevent skin contact.

Recommended Decontamination Facilities: eye bath, washing facilities, safety shower.

Eye Protection:

Chemical safety goggles or glasses with side shields.

9. Physical and Chemical Properties

Boiling Point: 133 F

Melting Point:

INFORMATION NOT AVAILABLE.

Freezing Point: n/a

Vapor Pressure:

Information not available for mixture

Vapor Density:

HEAVIER THAN AIR

Solubility in Water:

NEGLIGIBLE

Evaporation Rate: SLOWER THAN ETHER

Specific Gravity: 1.309

Weight per Gallon: 10.902 lb/gal

Coating VOC: 2.51 lb/gal

Material VOC: 2.23 lb/gal

Odor:

Mild solvent odor.

Appearance:

Liquid.

Partition Coefficient:

INFORMATION NOT AVAILABLE.

10. Stability and Reactivity

Chemical Stability (Conditions to Avoid):

Stable under normal storage/use conditions.

Incompatibility:

Avoid strong oxidizing agents, acids and alkalies.

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Hazardous Decomposition Products:
INFORMATION NOT AVAILABLE.
Hazardous Polymerization:
Will not occur under normal conditions.

11. Toxicological Information

Eye Irritation/Damage:
Component 100-41-4:
Mild eye irritation, Category 2b

Component 67-64-1:
Mild eye irritation, Category 2b

Component 7789-06-2:
Mild eye irritation, Category 2b

Skin Irritation/Damage:
Component 100-41-4:
LD50: >2000 mg/kg, rat. Category 5

Component 67-64-1:
LD50: 7426 mg/kg, rat. Category 5
Mildly irritating to skin.

Component 7789-06-2:
LD50: No data
Mild skin irritation.

Acute Oral Toxicity:
Component 100-41-4:
LD50: >2000 mg/kg, rat. Category 5.

Component 13463-67-7:
LD50: 10,000 mg/kg, rat. Category 5

Component 108-10-1:
LD50: 2080 mg/kg, rat. Category 4

Component 67-64-1:
LD50: 5800 mg/kg, rat. Category 5

Component 123-86-4:
LD50: 10,700 mg/kg, rat. Category 5
Component 7789-06-2:
LD50: 3118 mg/kg, rat. Category 5

Acute Inhalation Toxicity:
Component 100-41-4:
LC50: 2-20 mg/l, rat. Category 3

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Component 67-64-1:

LC50: 16000 mg/l, rat. Category 4

Component 7789-06-2:

no data

Respiratory/Skin Sensitization:

Component 100-41-4:

No evidence of respiratory or skin sensitization.

Component 67-64-1:

No evidence of respiratory or skin sensitization.

Component 7789-06-2:

Caused skin sensitization in animal studies. ACUTE OR CHRONIC OVEREXPOSURE TO CHROMATES MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING. ANIMAL TESTS INDICATE THAT SKIN CONTACT MAY PLAY A ROLE IN CAUSING RESPIRATORY SENSITIZATION.

Carcinogenicity:

Component 100-41-4:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Component 13463-67-7:

Listed by IARC as a group 2B carcinogen (possibly carcinogenic to humans). GHS Category 2.

Component 67-64-1:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Component 7789-06-2:

Listed by IARC as a group 1 carcinogen (carcinogenic to humans), and as a known carcinogen by NTP. GHS Category 1A.

Reproductive Toxicity:

Component 100-41-4:

No evidence of human reproductive toxicity.

Component 67-64-1:

No evidence of human reproductive toxicity.

Component 7789-06-2:

No data

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Germ Cell Mutagenicity:

Component 100-41-4:

No data

Component 67-64-1:

No data

Component 7789-06-2:

No data

Aspiration Toxicity:

Component 100-41-4:

Not classified as an Aspiration Hazard.

Component 108-10-1:

Aspiration Hazard; Category 1

Component 67-64-1:

Not classified as an Aspiration Hazard.

Component 123-86-4:

Not classified as an Aspiration Hazard.

Component 7789-06-2:

Not classified as an Aspiration Hazard.

STOT-single exposure

Component 100-41-4:

No data

Component 108-10-1:

No data Component 67-64-1:

No Data

Component 123-86-4:

No data Component 7789-06-2:

No data

STOT-repeated exposure

Component 100-41-4:

Repeated exposure affected liver, kidneys

Component 108-10-1:

No data Component 67-64-1:

No data

Component 123-86-4:

No data

Component 7789-06-2:

No data

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Routes of Exposure:

Inhalation of vapors, skin/eye/mucous membrane absorption, ingestion.

12. Ecological Information

Environmental Toxicity:

Component 100-41-4:

LC50: <10 mg/l (fish); EC50: <10 mg/l (daphnia); EC50: <10 mg/l (algae); EC50: <10 mg/l (bacteria)

Component 108-10-1:

LC50: 505 mg/l (fish); EC50: 1000 mg/l (daphnia); EC50: 980 mg/l (algae)

Component 67-64-1:

LC50: 6100 mg/l (fish); EC50: 7630 mg/l (daphnia)

Component 123-86-4:

LC50: 100 mg/l (fish); EC50: 72.8-205 mg/l (daphnia)

Component 7789-06-2:

No data

Persistence & degradability:

Component 100-41-4:

Readily biodegradable

Component 108-10-1:

Readily biodegradable

Component 67-64-1:

Readily biodegradable

Component 123-86-4:

No Data

Component 7789-06-2:

Not readily biodegradable

Bioaccumulative potential:

Component 100-41-4:

Does not bioaccumulate

Component 108-10-1:

No Data

Component 67-64-1:

Does not bioaccumulate

Component 123-86-4:

No Data

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Component 7789-06-2:

No data

Mobility in soil:

Component 100-41-4:

Mobile; may contaminate groundwater

Component 108-10-1:

No data

Component 67-64-1:

no data

Component 123-86-4:

No data

Component 7789-06-2:

No data

Other Adverse Ecological Effects:

No information

Component 100-41-4:

Dissolved material evaporates rapidly - within a day from water or soil surfaces.

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Component 7789-06-2:
Very Toxic to aquatic organisms

13. Disposal Considerations

Waste Disposal Method:

Discharge, treatment or disposal is subject to national, state, or local laws. When a decision is made to discard this material as supplied, it meets RCRA's characteristic definition of ignitability.

The toxicity characteristic (TC) has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP). Federal Regulations may apply to empty container. State and/or local regulations may be different.

Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. Transport Information

Domestic (Land, DOT), International (Water, IMO/IMDG), International (Air, ICAO) Road and Rail (ADR/RID), Air (ICAO/IATA), Vessel (IMO/IMDG):

DOT (USA) Shipping Name: Paint

UN/NA ID No: UN1263

Hazard Class: Class 3 (IATA/49CFR)

Packing Group: II

Environmental Hazards:

INFORMATION NOT AVAILABLE.

Marine Pollutant:

Components of this product do not appear on the list of Marine Pollutants (49CFR 172.101)

Special Precautions for User:

INFORMATION NOT AVAILABLE.

15. Regulatory Information

U.S. Federal Regulations:

TSCA: All components of this material are on the US TSCA 8(b) Inventory or are exempt from listing.

OSHA:

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This product is hazardous under OSHA's Hazard Communication Std. Not regarded as a health hazard under current legislation.

CERCLA: SARA Hazard Category:
INFORMATION NOT AVAILABLE.

Section 313:

"*" Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

International Regulations:

Canadian WHMIS:

INFORMATION NOT AVAILABLE.

Canadian Environmental Protection Act (CEPA):

INFORMATION NOT AVAILABLE.

EINECS:

INFORMATION NOT AVAILABLE.

State Regulations:

"#" Indicates a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

"+" Indicates a Clean Air Act Hazardous Air Pollutant (HAP).

Volatile Organic Compounds:

COATING VOC content is being expressed as mass of VOC per unit volume of coating less water and exempt solvents, where applicable.

MATERIAL VOC content is the actual weight of VOC per unit volume.

16. Other Information

Date Revised: 11/28/18

Prepared By: Regulatory Compliance

Information Contact: Regulatory Compliance 413-592-4191 ext 106

Manufacturer Disclaimer:

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the

user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to

determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and

safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate.

However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no

liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be

used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards

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which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. These data relate only to the specific material designated herein and do not relate to use in combination with any other material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

End of Material Safety Data Sheet

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MIL-PRF-23377K TYPE 1 CLASS C2 CATALYST-QT

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1. Product and Company Identification

Product Name : MIL-PRF-23377K TYPE 1 CLASS C2 CATALYST-QT

Product Code : 23377F12B-QT

Recommended Use: Please refer to Product Information/Technical Data Sheet.

Company Identification:

Randolph Products Company
33 Haynes Circle
Chicopee, MA 01020

Information Phone: 413-592-4191

Emergency Phone: ChemTel 800-255-3924

2. Hazards Identification

EMERGENCY OVERVIEW

HAZARD CLASSIFICATION:

HIGHLY FLAMMABLE LIQUID, CATEGORY 2

ACUTE TOXICITY (ORAL), CATEGORY 3

SKIN CORROSION/IRRITATION, CATEGORY 1

EYE DAMAGE/IRRITATION, CATEGORY 1

CORROSIVE TO METALS, CATEGORY 1

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE, CATEGORY 3 (CENTRAL NERVOUS SYSTEM)

ASPIRATION HAZARD, CATEGORY 1

RESPIRATORY SENSITIZER, CATEGORY 1

SKIN SENSITIZER, CATEGORY 1B TOXIC TO REPRODUCTION, CATEGORY 1A

SIGNAL WORD:

DANGER



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HAZARD STATEMENTS:

HIGHLY FLAMMABLE LIQUID AND VAPOR
HARMFUL IF SWALLOWED
CAUSES SKIN IRRITATION
CAUSES EYE IRRITATION
MAY CAUSE DROWSINESS OR DIZZINESS
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
MAY DAMAGE FERTILITY OR THE UNBORN CHILD
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTY IF INHALED
MAY CAUSE AN ALLERGIC SKIN REACTION
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
MAY BE CORROSIVE TO METALS

PRECAUTIONARY STATEMENTS:

Do NOT induce vomiting.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing vapors or spray mist.
In case of inadequate ventilation (not adequate to keep chemical concentrations below exposure limit(s)), wear respiratory protection.
If inhaled: if breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms, obtain medical attention.
If skin rash occurs, seek medical advice.
Contaminated clothing must not be allowed out of the workplace.

Keep away from heat, sparks, open flame/hot surfaces.
No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting and other equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Store in a well ventilated place.
Keep cool.
In case of fire: Use dry chemical, CO₂, Halon or foam to extinguish.
Store locked up.
Do not breathe dusts or mists.
Wash hands thoroughly after handling.
Do not eat or drink while using this product.
If swallowed, immediately call a poison control center.
Rinse mouth.
Do NOT induce vomiting.

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Wear protective gloves, protective clothing, eye/face protection.
If on skin, take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If exposed/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 attention.

If inhaled, remove person to fresh air and keep comfortable for breathing.

Keep in original container.

Absorb spillage to prevent material damage.

Store in corrosive resistant container.

Dispose of contents/container in accordance with all local, regional and national regulations.

Potential Health Effects

Eye:

Causes severe burns and permanent eye damage. May cause corneal opacity (clouding of eye surface). Can cause burning sensation, tearing and redness. Can cause eye irritation.

Skin:

Prolonged or repeated contact may dry the skin and lead to irritation (i.e. dermatitis). Causes severe burns and possibly permanent skin damage. Can cause redness, itching and burning sensation. Causes skin irritation.

Ingestion:

May be fatal if swallowed and enters airways.

If swallowed, immediately call a poison control center or physician. Do NOT induce vomiting.

Inhalation:

Causes burns to the eyes, nose and respiratory tract. Can cause dizziness, breathing difficulty, headaches & loss of

coordination. Nausea, vomiting, and stomach upset can occur. Can cause wheezing, coughing, shortness of breath,

and tightness in the chest. May cause drowsiness or dizziness.

Chronic (Cancer) Information:

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

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

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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.

Teratology (Birth Defects) Information:
May damage fertility or the unborn child.

Reproduction Information:

Contains xylene, which may harm the developing fetus if a pregnant woman is overexposed. Xylene may affect the liver, kidneys, G.I., blood.

Aggravation of Pre-Existing Conditions:
Dermatitis or other skin conditions.

3. Composition/Information on Ingredients

Component	CAS#	% by Wt.
PROPRIETARY AMINE BLEND	68410-23-1	48
METHYL ETHYL KETONE	78-93-3	17
ACGIH: 200 PPM TWA		
OSHA: 200 PPM TWA		
*+ XYLENE	1330-20-7	11
ACGIH: 100 PPM TWA		
OSHA: 100 PPM TWA		
BENZYL ALCOHOL	100-51-6	9
AIHA (WEEL): 10 PPM TWA		
TRIS-2,4,6-(DIMETHYLAMINOMETHYL) PHENOL	90-72-2	9
NONE ESTABLISHED, CORROSIVE		
ACETONE	67-64-1	5
ACGIH TLV: 500 PPM TWA		
ACGIH TLV: 750 PPM STEL		
OSHA PEL: 1000 PPM TWA		
OSHA VPEL: 750 PPM TWA		
OSHA VPEL: 1000 PPM STEL		

4. First Aid Measures

Eyes:

Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. If easy to do, remove contact lenses. Get medical attention as soon as possible. Oils or ointments should not be used at this time. Do not attempt to neutralize with chemical agents. Continue the flushing for an additional 15 minutes if a physician is not

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immediately available. 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.

Skin:

Immediately flush with plenty of water for at least 15 minutes. For large exposures use an emergency shower. Remove contaminated clothing and shoes. Get immediate medical attention. Professionally wash clothing before re-use. If on skin: wash with plenty of soap & water. If skin irritation occurs: Get Medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Ingestion:

May be fatal if swallowed and enters airways.
If swallowed: Immediately call a poison center/physician.
Do NOT induce vomiting.

Inhalation:

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison control center/get medical attention if you feel unwell.

Note to Physicians:

Aspiration hazard - do not induce vomiting

5. Fire Fighting Measures

Flammable Properties:

Flash Point: -4 F Method: TCC

Explosive Limits:

Lower explosive limit: 1.0
Upper explosive limit: 12.8

Autoignition Temperature:

INFORMATION NOT AVAILABLE.

Hazardous Combustion Products:

Smoke, soot and carbon dioxide, carbon monoxide.

Extinguishing Media:

Dry chemical, CO₂, Halon, Foam

Firefighting Procedures:

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: High temperatures can cause sealed containers to rupture due to a build up of internal pressure. Cool with water spray. Vapors are heavier than air and can travel some distance away and flash

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back.

Sensitivity to Static Discharge: Material may accumulate a static charge which could act as an ignition source.

Precautions should be taken when pouring to minimize splash/free fall.

6. Accidental Release Measures

Small Spill:

See Information for Large Spill, below:

Large Spill:

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental Precautions:

INFORMATION NOT AVAILABLE.

Methods/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/state/federal regulations.

7. Handling and Storage

Handling:

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/processing equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection.

Storage:

Prevent unauthorized access.

Store in a well ventilated place.

Keep container tightly closed.

Keep cool.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

SEE SECTION 3 FOR THIS INFORMATION

Engineering Controls:

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Ventilation: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions.

Ventilation should be explosion proof.

Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, spray painting, mechanical generation of dusts, heating, drying, etc.

Personal Protective Equipment

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 CFR 1152, January 8, 1998. Respirator type: Organic Vapor.

Skin Protection:

Wear impervious gloves to prevent skin contact.

Recommended Decontamination Facilities: eye bath, washing facilities, safety shower.

Eye Protection:

Chemical safety goggles or glasses with side shields.

9. Physical and Chemical Properties

Boiling Point: 133 F

Melting Point:

INFORMATION NOT AVAILABLE.

Freezing Point: n/a

Vapor Pressure:

Information not available for mixture

Vapor Density:

HEAVIER THAN AIR

Solubility in Water:

NEGLIGIBLE

Evaporation Rate: SLOWER THAN ETHER

Specific Gravity: .931

Coating VOC: 3.08 lb/gal

Material VOC: 2.92 lb/gal

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Odor:

Mild solvent odor.

Appearance:

Liquid.

Partition Coefficient:

INFORMATION NOT AVAILABLE.

10. Stability and Reactivity

Chemical Stability (Conditions to Avoid):

Stable under normal storage/use conditions.

Incompatibility:

Avoid strong oxidizing agents, acids and alkalies.

Hazardous Decomposition Products:

INFORMATION NOT AVAILABLE.

Hazardous Polymerization:

Will not occur under normal conditions.

11. Toxicological Information

Eye Irritation/Damage:

Component 1330-20-7:

Mild eye irritation, Category 2B

Component 100-51-6:

May mildly irritate the eye.

Component 78-93-3:

Mild eye irritation, Category 2B

Component 67-64-1:

Mild eye irritation, Category 2b

Component 68410-23-1:

Serious eye damage, Category 1

Component 90-72-2:

Serious eye damage, Category 1

Skin Irritation/Damage:

Component 1330-20-7:

LD50: 15,433, rabbit. Category 5.

Mild irritation to skin. Category 2.

Component 100-51-6:

LD50: 2,000 mg/kg, rabbit. Category 4.

Mild skin irritant.

Component 78-93-3:

Moderate skin irritation, Category 2

LD50: >5000 mg/kg, rabbit

Component 67-64-1:

LD50: 7426 mg/kg, rat. Category 5

Mildly irritating to skin.

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Component 68410-23-1:

LD50: 800 mg/kg

Corrosive to skin, Category 1A, May cause sensitization by skin contact.

Component 90-72-2:

LD50: no data

Extrememly corrosive to skin, Category 1A

Acute Oral Toxicity:

Component 1330-20-7:

LD50: 5000 mg/kg, rat. Category 5

Component 100-51-6:

LD50: >4178 mg/kg, rat. Category 4.

Component 78-93-3:

LD50: 2300-3500 mg/kg, rat. Category 5

Component 67-64-1:

LD50: 5800 mg/kg, rat. Category 5

Component 68410-23-1:

LD50: >2000 mg/kg, rat. Not categorized.

Component 90-72-2:

LD50: 2169 mg/kg, rat. Not categorized.

Acute Inhalation Toxicity:

Component 1330-20-7:

LD50: 18.8-25.9 mg/L, rat. Category 4

Component 78-93-3:

LD50: 11,700 mg/kg, rat. Category 5

Component 67-64-1:

LC50: 16000 mg/l, rat. Category 4

Component 90-72-2:

No data

Respiratory/Skin Sensitization:

Component 1330-20-7:

No evidence of respiratory or skin sensitization.

Component 100-51-6:

No evidence of respiratory or skin sensitization.

Component 78-93-3:

No evidence of respiratory or skin sensitization.

Component 67-64-1:

No evidence of respiratory or skin sensitization.

Component 68410-23-1:

May cause skin sensitization and/or respiratory sensitization, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING.

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Component 90-72-2:

Caused skin sensitization in animal studies. May cause respiratory sensitization, resulting in allergic respiratory reactions including wheezing, shortness of breath and difficulty breathing.

Carcinogenicity:

Component 1330-20-7:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

Component 100-51-6::

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Component 78-93-3:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

Component 67-64-1:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Component 90-72-2:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Reproductive Toxicity:

Component 1330-20-7:

Known human reproductive toxicant; Category 1A

Component 100-51-6::

No evidence of human reproductive toxicity.

Component 78-93-3:

No evidence of human reproductive toxicity.

Component 67-64-1:

No evidence of human reproductive toxicity.

Component 90-72-2:

No evidence of human reproductive toxicity.

Germ Cell Mutagenicity:

Component 1330-20-7:

No data

Component 100-51-6::

No data

Component 78-93-3:

No data

Component 67-64-1:

No data

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Component 90-72-2:

No data

Aspiration Toxicity:

Component 1330-20-7:

Aspiration Hazard; Category 1

Component 78-93-3:

Not classified as an Aspiration Hazard.

Component 67-64-1:

Not classified as an Aspiration Hazard.

Component 90-72-2:

Corrosive to respiratory tract.

STOT-single exposure

Component 1330-20-7:

No data

Component 100-51-6::

No data

Component 78-93-3:

No data

Component 67-64-1:

No Data

Component 90-72-2:

Respiratory tract irritation.

STOT-repeated exposure

Component 1330-20-7:

No data

Component 100-51-6:

No data

Component 78-93-3:

No data

Component 67-64-1:

No data

Component 90-72-2:

Corrosive to respiratory system, severe digestive tract burns, severe skin burns and eye damage, harmful if inhaled, harmful if swallowed.

Routes of Exposure:

Inhalation of vapors, skin/eye/mucous membrane absorption, ingestion.

12. Ecological Information

Environmental Toxicity:

Component 1330-20-7:

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LC50: 8.4 mg/l (fish); EC50: 9.55 mg/l (daphnia); EC50: 3.2 mg/l (algae)

Component 100-51-6:

No data

Component 78-93-3:

LC50: 2993 mg/l (fish); EC50: 308 mg/l (daphnia); EC50: 2029 mg/l (algae)

Component 67-64-1:

LC50: 6100 mg/l (fish); EC50: 7630 mg/l (daphnia)

Component 90-72-2:

LC50: 175 mg/l (fish)

Persistence & degradability:

Component 1330-20-7:

Readily biodegradable

Component 100-51-6:

No Data

Component 78-93-3:

Readily biodegradable

Component 67-64-1:

Readily biodegradable

Component 90-72-2:

Not readily biodegradable

Bioaccumulative potential:

Component 1330-20-7:

Not expected to bioaccumulate

Component 100-51-6:

No Data

Component 78-93-3:

No Data

Component 67-64-1:

Does not bioaccumulate

Component 90-72-2:

No data

Mobility in soil:

Component 1330-20-7:

No data

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Component 100-51-6:

No data

Component 78-93-3:

No data

Component 67-64-1:

no data

Component 90-72-2:

No data

Other Adverse Ecological Effects:

Component 1330-20-7:

Toxic to aquatic life with long lasting results.

Component 90-72-2:

Harmful to aquatic life

13. Disposal Considerations

Waste Disposal Method:

Discharge, treatment or disposal is subject to national, state, or local laws.

When a decision is made to discard this

material as supplied, it meets RCRA's characteristic definitions of ignitability and corrosivity. The toxicity

characteristic (TC) has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

Federal Regulations may apply to empty container. State and/or local regulations may be different.

Of the methods of disposal currently available, it is recommended that an alternative be selected according to the

following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2)

incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

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Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. Transport Information

Domestic (Land, DOT), International (Water, IMO/IMDG), International (Air, ICAO)
Road and Rail (ADR/RID), Air (ICAO/IATA), Vessel (IMO/IMDG):

DOT (USA) Shipping Name: Paint Related Material

UN/NA ID No: UN1263

Hazard Class: Class 3 (IATA/49CFR)

Packing Group: II

Environmental Hazards:

INFORMATION NOT AVAILABLE.

Marine Pollutant:

Components of this product do not appear on the list of Marine Pollutants (49CFR 172.101)

Special Precautions for User:

INFORMATION NOT AVAILABLE.

15. Regulatory Information

U.S. Federal Regulations:

TSCA: All components of this material are on the
US TSCA 8(b) Inventory or are exempt from listing.

OSHA:

This product is hazardous under OSHA's Hazard Communication Std. Not regarded
as a health hazard under current
legislation.

CERCLA: SARA Hazard Category:

INFORMATION NOT AVAILABLE.

Section 313:

"*" Indicates toxic chemical(s) subject to the reporting requirements of
section 313 of Title III and of 40 CFR 372.

International Regulations:

Canadian WHMIS:

INFORMATION NOT AVAILABLE.

Canadian Environmental Protection Act (CEPA):

INFORMATION NOT AVAILABLE.

EINECS:

INFORMATION NOT AVAILABLE.

State Regulations:

"+" Indicates a Clean Air Act Hazardous Air Pollutant (HAP).

Volatile Organic Compounds:

COATING VOC content is being expressed as mass of VOC per unit volume of
coating less water and exempt solvents, where

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applicable.

MATERIAL VOC content is the actual weight of VOC per unit volume.

16. Other Information

Date Revised: 02/08/19

Prepared By: Regulatory Compliance

Information Contact: Regulatory Compliance 413-592-4191 ext 106

Manufacturer Disclaimer:

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the

user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to

determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and

safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate.

However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no

liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be

used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards

which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No

representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any

other nature are made hereunder with respect to the information contained herein or the chemical to which the

information refers. These data relate only to the specific material designated herein and do not relate to use in

combination with any other material. It is the responsibility of the user to comply with all applicable federal, state

and local laws and regulations.

End of Material Safety Data Sheet