



Safety Data Sheet

Issuing Date 16-Jan-2015

Revision Date 16-Jan-2015

Version 3

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier

Product Code 50660151
 Product name AUTOMATE™ ORANGE 2HF

Recommended use of the chemical and restrictions on use

UN/ID no UN3082
 Synonyms N/A

Supplier's details

Recommended use Industrial Use Only.
 Uses advised against No information available

Details of the Supplier of the Safety Data Sheet

Keystone Corporate Office 2501 W Fulton Street Chicago, IL 60612	Keystone Liquid Manufacturing and Technical Facility 2165 Highway 292 Inman, SC 29349 Ph 864 473-1601
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Ph 312-666-2015
 Ph 1-800-522-4393

Emergency Telephone Number

USA: 1-800-255-3924
 China: (400-1)-400-120-0751
 Other: Collect 1-813-248-0585

2. Hazards Identification

Classification

carcinogenicity	Category 1A
Aspiration toxicity	Category 1

EMERGENCY OVERVIEW

signal word

DANGER

hazard statements

H304 - May be fatal if swallowed and enters airways
 H350 - May cause cancer



appearance Orange

Physical State Liquid

Odor No information available

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precautionary statements

P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P281 - Use personal protective equipment as required
 P308 + P313 - IF exposed or concerned: Get medical advice/attention
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 P331 - Do NOT induce vomiting
 P405 - Store locked up
 P501 - Dispose of contents/ container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)**OTHER INFORMATION**

May be harmful in contact with skin
 Toxic to aquatic life with long lasting effects
 Toxic to aquatic life

Unknown Acute Toxicity

35.638 percent of the mixture consists of ingredient(s) of unknown acute toxicity

3. Composition/Information on Ingredients

Chemical Name	CAS-No	Weight %	Trade secret
Naphtha (petroleum), heavy aromatic	64742-94-5	60-70	•
Biphenyl	92-52-4	1-5	•
Naphthalene	91-20-3	1-5	•

4. First aid measures**First aid measures for different exposure routes**

General Advice	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
INHALATION	Move to fresh air. Consult a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
INGESTION	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.
Protection of First-aiders	Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Main Symptoms No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. Fire-fighting measures

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Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Keep away from heat and sources of ignition.**Specific Hazards Arising from the Chemical**

No information available.

Explosion Data**Sensitivity to Mechanical Impact** None.**Sensitivity to Static Discharge** None.**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****Personal Precautions** Use personal protective equipment.**Environmental Precautions****Environmental Precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.**Methods and materials for containment and cleaning up****Methods for containment** Prevent further leakage or spillage if safe to do so.**Methods for Cleaning Up** Cover liquid spill with sand, earth or other noncombustible absorbent material. Use personal protective equipment. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.**7. Handling and Storage****Precautions for Safe Handling****Advice on safe handling** Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product.**Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.**Incompatible Products** None known based on information supplied.**8. Exposure Controls/Personal Protection****Control Parameters****Exposure guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Biphenyl 92-52-4	TWA: 0.2 ppm	TWA: 0.2 ppm TWA: 1 mg/m ³ (vacated) TWA: 0.2 ppm (vacated) TWA: 1 mg/m ³	IDLH: 100 mg/m ³ TWA: 0.2 ppm TWA: 1 mg/m ³

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Naphthalene 91-20-3	STEL: 15 ppm TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m ³ (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m ³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³
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NIOSH IDLH Immediately Dangerous to Life or Health

Exposure guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Exposure Controls

Engineering Measures Showers
Eyewash stations
Ventilation systems. Apply technical measures to comply with the occupational exposure limits. Process enclosure and/or ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substances; this is irrespective of the recommendation involving the wearing of eye protection. If splashes are likely to occur, wear: Face-shield. Goggles.

Skin and Body Protection Skin and Body Protection. Wear protective gloves and protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures Wear personal protective equipment. When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

9. Physical and Chemical Properties

Physical and Chemical Properties

Physical State	Liquid	Odor	No information available
appearance	Orange		
odor threshold	No information available		
Property	VALUES	Remarks • Method	
pH	No information available		
melting point		N/A	
Boiling point/boiling range	< 110 °C / 230.00 °F		
Flash Point	< 121 °C / < 250.00 °F		
Evaporation Rate	no data available		
flammability (solid, gas)	no data available		no data available
Flammability Limits In Air			
Upper Flammability Limit	No information available		
Lower Flammability Limit	No information available		
vapor pressure	No information available		
Vapor Density	No information available		
Specific gravity	No information available		N/A
Solubility in Other Solvents	No information available		
Partition coefficient: n-octanol/water	No information available		
Autoignition Temperature	No Data Available		N/A
decomposition temperature	No information available		
Kinematic viscosity	No Data Available		
Dynamic viscosity	No information available		
Explosive Properties	No information available		

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Oxidizing properties No information available**OTHER INFORMATION**

softening point No information available
Molecular Weight
VOC Content(%) No information available
density No information available

10. Stability and Reactivity**Reactivity**

no data available

Chemical Stability

Stable under recommended storage conditions.

Hazardous Reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

May emit toxic fumes under fire conditions.

11. Toxicological Information**Information on Likely Routes of Exposure****Product information**

INHALATION Avoid breathing vapors or mists.
Eye Contact Avoid contact with eyes.
Skin Contact May be harmful in contact with skin.
INGESTION Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Naphthalene 91-20-3	No Data Available	20 g/kg (Rabbit)	340 mg/m ³ (Rat) 1 h

Information on Toxicological Effects**Symptoms** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****sensitization** No information available.**Germ cell mutagenicity** No information available.**carcinogenicity**

Chemical Name	ACGIH	IARC	NTP	OSHA
Naphthalene 91-20-3		Group 2A Group 2B	Reasonably Anticipated	X

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IARC: (International Agency for Research on Cancer)
 Group 3 - Not Classifiable as to Carcinogenicity in Humans
 Group 2A - Probably Carcinogenic to Humans
 Group 2B - Possibly Carcinogenic to Humans
NTP: (National Toxicity Program)
 Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
OSHA: (Occupational Safety & Health Administration)
 X - Present

Reproductive Toxicity No information available.
Specific target organ systemic toxicity (single exposure) No information available.
Specific target organ systemic toxicity (repeated exposure) No information available.
Chronic toxicity May cause adverse liver effects.
Target organ effects Blood, Central Nervous System, EYES, Kidney, Liver, Respiratory System, skin.
Aspiration Hazard Risk of serious damage to the lungs (by aspiration). May be fatal if swallowed and enters airways.

Numerical Measures of Toxicity - Product information

Unknown Acute Toxicity 35.638 percent of the mixture consists of ingredient(s) of unknown acute toxicity
The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (oral) 6329 mg/kg
ATEmix (dermal) 2990 mg/kg
ATEmix (inhalation-dust/mist) 5 mg/l

12. Ecological Information**ecotoxicity**

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Naphtha (petroleum), heavy aromatic 64742-94-5	2.5: 72 h Skeletonema costatum mg/L EC50	19: 96 h Pimephales promelas mg/L LC50 static 2.34: 96 h Oncorhynchus mykiss mg/L LC50 1740: 96 h Lepomis macrochirus mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through 41: 96 h Pimephales promelas mg/L LC50		0.95: 48 h Daphnia magna mg/L EC50
Biphenyl 92-52-4	1.28: 3 h Chlamydomonas angulosa mg/L EC50	1.65 - 2.29: 96 h Pimephales promelas mg/L LC50 flow-through 1.17 - 1.81: 96 h Pimephales promelas mg/L LC50 static 4.3 - 5.1: 96 h Lepomis macrochirus mg/L LC50 static 1.4 - 1.6: 96 h Oncorhynchus mykiss mg/L LC50 static	EC50 = 1.89 mg/L 30 min EC50 = 3.20 mg/L 5 min EC50 = 3.30 mg/L 15 min	0.63 - 0.85: 48 h Daphnia magna mg/L EC50 Static
Naphthalene 91-20-3	0.4: 72 h Skeletonema costatum mg/L EC50	5.74 - 6.44: 96 h Pimephales promelas mg/L LC50 flow-through 1.6: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.91 - 2.82: 96 h Oncorhynchus mykiss mg/L LC50 static 1.99: 96 h Pimephales promelas mg/L LC50 static 31.0265: 96 h Lepomis macrochirus mg/L LC50 static	EC50 = 0.93 mg/L 30 min EC50 > 20 mg/L 18 h	2.16: 48 h Daphnia magna mg/L LC50 1.96: 48 h Daphnia magna mg/L EC50 Flow through 1.09 - 3.4: 48 h Daphnia magna mg/L EC50 Static

Persistence and Degradability
 No information available.

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Bioaccumulation

No information available.

Chemical Name	Log Pow
Naphtha (petroleum), heavy aromatic 64742-94-5	2.9 - 6.1
Biphenyl 92-52-4	4.09
Naphthalene 91-20-3	3.3

Other Adverse Effects

No information available

13. Disposal Considerations**Waste treatment****Waste Disposal Methods**

Dispose of in accordance with local regulations.

Contaminated Packaging

Do not re-use empty containers. Dispose of in accordance with local regulations.

US EPA Waste Number

U239 U165

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Naphthalene 91-20-3	U165	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145		U165

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Naphthalene 91-20-3			Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Naphthalene 91-20-3	Toxic

14. Transport Information**DOT**

UN/ID no

UN3082

Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class

9

Packing group

III

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Description	UN3082, environmental hazardous substance, liquid, n.o.s., (naphtha, naphthalene), 9, PG III Marine Pollutant
Emergency Response Guide Number	171
<u>TDG</u>	
UN/ID no	UN3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard class	9
Packing group	III
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Naphthalene), 9, III, Marine Pollutant
<u>MEX</u>	
UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s.
Hazard class	9
Packing group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s. (Naphthalene), 9, III
<u>ICAO</u>	
UN/ID no	UN3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard class	9
Packing group	III
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Naphthalene), 9, III
<u>IATA</u>	
UN/ID no	UN3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard class	9
Packing group	III
Description	UN3082, environmentally hazardous liquid, n.o.s., (naphtha, naphthalene), 9 , PG III
<u>IMDG</u>	
UN/ID no	UN3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard class	9
Packing group	III
EmS No.	F-A, S-F
Description	UN3082, Environmentally hazardous liquid, n.o.s., (naphtha, naphthalene), 9, PG III, marine pollutant
<u>RID</u>	
UN/ID no	UN3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard class	9
Packing group	III
Classification Code	M6
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Naphthalene), 9, III
<u>ADR</u>	
UN/ID no	UN3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard class	9
Packing group	III
Classification Code	M6
Tunnel restriction code	(E)
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Naphthalene), 9, III, (E)
<u>ADN</u>	
UN/ID no	UN3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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Hazard class	9
Packing group	III
Classification Code	M6
Special Provisions	274, 335, 601
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Naphthalene), 9, III
Limited quantity	5 L

15. Regulatory Information

International Inventories

TSCA	Listed
EINECS/ELINCS	Listed
DSL	Listed
NDSL	Not Determined
PICCS	Listed
ENCS	Not Determined
IECSC	Listed
AICS	Not Determined
KECL	Listed
NZIoC	Not Determined

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 AICS - Australian Inventory of Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 NZIoC - New Zealand Inventory of Chemicals

REACH registration number Keystone has taken all relative steps to ensure REACH-Compliance. Please contact us with any REACH-Related questions at reach@keystone-europe.co.uk

RESTRICTIONS - REACH TITLE VIII No information available

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	SARA 313 - Threshold Values %
Biphenyl	1.0
Naphthalene	0.1

SARA 311/312 Hazard Categories

Acute health hazard	YES.
Chronic health hazard	NO.
Fire hazard	NO.
Sudden Release of Pressure Hazard	NO.
Reactive Hazard	NO.

Clean Water Act

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances

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Naphthalene	100 lb	X	X	X
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CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Biphenyl	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Naphthalene	100 lb 1 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
Naphthalene	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Biphenyl	X	X	X	X	
Naphthalene	X	X	X	X	

International regulations

Mexico - Grade

Slight risk, Grade 1.

Chemical Name	Carcinogen Status	Exposure limits
Biphenyl		Mexico: TWA 0.2 ppm Mexico: TWA 1.5 mg/m ³ Mexico: STEL 0.6 ppm Mexico: STEL 4 mg/m ³
Naphthalene		Mexico: TWA 10 ppm Mexico: TWA 50 mg/m ³ Mexico: STEL 15 ppm Mexico: STEL 75 mg/m ³

CANADA**WHMIS Note**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2A Very toxic materials



Chemical Name	NPRI
Biphenyl	X
Naphthalene	X

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Legend

NPRI - National Pollutant Release Inventory

HMIS

Health Hazard 2

flammability 1

Physical hazard 0

**PERSONAL
PROTECTION H****16. Other Information**

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Revision note No information available.

Restrictions on use No information available.

Contact Information Website WWW.DYES.COM.**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Material Safety Data Sheet

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YALEY ENTERPRISES

002

Premium Wax

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Revision Date: 01-2015

MSDS #: 107

MATERIAL SAFETY DATA SHEET**YALEY ENTERPRISES, INC.**7654 Avianca Drive
Redding, CA 96002

For information call:

Phone: 714-228-1999

Fax: 714-228-1990

Emergency Telephone Number: 714-228-1999

Transportation Emergency: CHEMTRACK 949-246-9772

SECTION 1**PRODUCT INFORMATION**

Product Identification: AM WAX FR 58/60 (1410 & 1420 solid)

Chemical Description: Fully Refined Paraffin Wax

CAS NUMBER: 64742-61-6

SECTION 2**HAZARDOUS INGREDIENTS**

Materials or ingredients in Hazardous concentrations: NONE As defined under the following :

(1) US OSHA Hazard Communication Standard (29 C.F.R. 1910.20) (2) Canadian Hazard Products Act (S.C. 1987, c.30 (Part 1) (3) No classification under 67/548/EEC.

SECTION 3**HEALTH HAZARD DATA**

This Information on effects of overexposure is consistent with the requirements under the OSHA Hazard Communication Standard (29 CFR 1910.1200). **Inhalation:** Avoid inhalation of fumes as they may cause mild upper respiratory irritation. Threshold exposure limit for wax fumes is 2mg/m3. **Eye Contact:** Molten wax fumes may slightly irritate eyes with prolonged contact. **Skin Contact:** Molten wax may result in thermal burns with contact. **Ingestion:** If swallowed wax may cause gastrointestinal disturbances.

SECTION 4**EMERGENCY & FIRST AID PROCEDURES**

(1) **Eye Contact:** Under contact with molten wax, flush immediately with flowing water and consult physician. (2) **Skin Contact:** Wash skin with soap and water under normal conditions. If burned with molten wax, contact physician immediately. (3) **Inhalation:** Immediately obtain fresh air and if necessary administer oxygen. (4) **Ingestion:** Product is not acutely toxic but in necessary consult a physician.

SECTION 5**FIRE & EXPLOSION HAZARD DATA**

Flash Point: > 204C (400F)

Testing Method: D-92

Autoignition Temp.: AP 750degrees F(est)

Extinguishing Media: Use water spray or fog, alcohol-type foam, dry chemical or CO2. Do not use water, product will float and can be reignited.

Fire fighting procedures and precautions: An approved self-contained breathing apparatus with full face piece operated in pressure-demand mode is necessary. Non-flammable apparel including helmet, bunker coats, gloves, and rubber boots is required when entering confined fire space. Keep fire exposed containers cool with water.

SECTION 6**SPILL & LEAK PROCEDURES**

Procedures in the event of spilled or released: Remove all sources of ignition. Notify authorities, contain spill, and do not let spilled wax enter sewers or watercourses. Absorb with clay or sand or other appropriate material. If spill is in the molten form, confine spill until it solidifies and then recover as solid. Material can be placed in drums or other suitable container for proper disposal in compliance with Federal, State, and Local regulations. Refer to Section 3, section 8, and section 10 for other information.

SECTION 7**STORAGE & HANDLING**

Material will remain stable for over one year when stored in proper conditions. Material should be stored away from extreme temperature and direct sunlight as these conditions may change properties of material especially color. Overheating wax in molten condition or maintaining material at elevated temperatures for extended periods of time may cause discoloration and oxidation. Specified materials are required for bulk storing tanks and product systems.

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SECTION 8 EMPLOYEE PROTECTION

- (1) **Respiratory protection:** Under normal operating conditions, not needed. In case of emergency, use NIOSH-approved respiration when required.
- (2) **Ventilation:** Use of local exhaust to capture vapor, mist, or fumes is recommended. Ventilation should be sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations in the air.
- (3) **Protective Clothing:** Chemical resistant gloves and chemical goggles are recommended when handling material for protection against skin contact.

SECTION 9 PHYSICAL DATA

Product CAS # 64742-61-6
Appearance: white solid
Odor: mild petroleum order
Melt Point: 58C
Specific Gravity: .868 water = 1
PH: N/A
Vapor Pressure (mm Hg): < 0.01 @ 25C
Vapor Density (air = 1): >5
Boiling Point: > 300C
Solubility in Water (20C): <0.1%
Evaporation Rate (Butyl Acetate): <0.01
Volatiles (By Volume): <0.01%
Coeff. Water/Oil Distribution: <0.01

SECTION 10 STABILITY & REACTIVITY

Stability: Stable. Will not react violently with water.
Conditions to Avoid: Sources of ignition.
Incompatible Materials: May react with strong oxidizers such as liquid chlorine, concentrated oxygen, sodium hypochlorite, etc., as this presents a serious explosion hazard.
Hazardous Decomposition Products: Combustion may produce carbon monoxide and other asphyxiants.
Hazardous Polymerization: will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Studies: Product has a low order of acute and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possible death.

Eye Effects: Product contacting eyes may cause eye irritation.

Skin Effects: Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an irritant by OSHA criteria.

Acute Oral Effects: Product has a low order of acute and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

Acute Inhalation Effects: Product has a low order of acute dermal toxicity, but minute amount aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possible death.

In accordance with the current OSHA Hazard Communication Standard criteria, this product does not require a cancer hazard warning. This is because the product is formulated from base stocks which are severely hydrotreated, severely solvent extracted, and or processed by a mild hydrotreatment and extraction. Alternatively, it may consist of components not otherwise affected by IARC criteria, such

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as atmospheric distillates and synthetically derived materials, and as such is not characterized by current IARC classification criteria.

SECTION 12 ECOLOGICAL INFORMATION

If applied to leaves, this product may kill grasses and small plants by interfering with transpiration and respiration. This product is not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water. Product may be moderately toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress to birds and mammals through ingestion during pelage grooming. This material is a solid at ambient conditions, and should not present a major hazard to groundwater if spilled.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal method: All disposals must comply with federal, state, and local regulations. Product as supplied does not meet the characteristics of a hazardous waste as defined in 40 CFR 261.21-24. If mixed with other products, waste mixture must be characterized. DO NOT dispose of this product in drains or storm sewer. DO NOT dispose of this product in a landfill without prior solidification. Department of Transportation (DOT) Regulations may apply for transporting this material when spilled. Materials should be recycled if possible. Consider waste brokering.

SECTION 14 TRANSPORTATION INFORMATION

Department of Transportation Classification: Not hazardous if shipped at a temperature below 212F:

Hazard Class: III B

DOT identification number: Not applicable if shipped at a temperature below 212F.

Special transportation Note: If shipped at over 212F in containers of over 118.9 gallons capacity, this substance will be regulated as a DOT Hazardous Substance with the following shipping description: "Elevated Temperature liquid, N.O.S., 9, UN3257, PG III."

This product is considered an oil under 49 CFR (DOT) Part 130. If shipped by rail or highway in a tank with a capacity of 3,500 gallons or more, it is subject to the requirements of Part 130.

Waste Disposal Methods: See section 13.

SECTION 15 REGULATORY INFORMATION

US FEDERAL REGULATORY INFORMATION:

SARA 302 Threshold Planning Quantity: Not applicable

SARA 304 Reportable quantity: Not applicable

SARA 311 Categories: Immediate (acute) health effects: N

Delayed (Chronic) health effects: N

Fire Hazard: N

Sudden Release of Pressure Hazard: N

Reactivity Hazard: N

EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSTION AND LIABILITY ACT.

(CERCLA): No chemicals in this product are subject to the reporting requirements of CERCLA.

SARA TITLE III – SECTION 313 SUPPLIER NOTIFICATION: No chemicals in this product exceed the De Minimus reporting level established by SARA Title III, Section 313 and 40 CFR 372.

EUROPEAN (ECC) REGULATORY INFORMATION: This product is listed on the European Inventory of existing commercial substances.

STATE/CANADIAN REGULATORY INFORMATION: No components of this material require labeling under California Proposition 65. None of the product's components are listed on the states lists from CA, FL, MA, MN, NJ, PA or on the Canadian Controlled Product Ingredient Disclosure List.

DOT: Not regulated if shipped below 212F.

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SECTION 16 OTHER INFORMATION**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:**

The information contained herein is based upon data believed to be reliable and reflects our best professional judgment. Although reasonable care has been taken in the preparation of this document, we extend not warranties and make no representations as to the accuracy or completeness of the information contained therein and assume no responsibility regarding the suitability of this information for the user's intended purpose of the consequence of its use. Each individual should make a determination as to the suitability of the information for his/her particular purpose(s).