



Safety Data Sheet

August 19, 2015

Allied Oil & Tire Company
2209 S 24th Street
Omaha, NE 68108

Product Id	Product name	Revision Date	Order No
50660151	AUTOMATE™ ORANGE 2HF	January 16, 2015	292493

The purpose of the SDS is to effectively communicate important hazard information and appropriate protective measures to downstream customers. The SDS has been prepared in accordance with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), Revision 3, and OSHA's 29 CFR 1910.1200 as applicable.

As an element of a comprehensive hazard communication program, please ensure that this Safety Data Sheet is readily accessible at all times to persons using this material.

Keystone's Regulatory Compliance Team is ready to assist you on a wide variety of global regulations efficiently, accurately and in a timely manner. With regulatory offices in both the U.S. and Europe, we can provide you with the documentation necessary to navigate the ever-growing terrain of regulations and compliance.

Sincerely,

Keystone Aniline Corporation

Keystone Europe Limited

Note: This information has been provided to you based on our current SDS distribution records. To change the delivery method to e-mail or address for future SDS distribution, please contact your customer service representative.

U.S CORPORATE OFFICE:

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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

UNID 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

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

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, MSH/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

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		

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

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.

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

Description	UN3082, environmental hazardous substance, liquid, n.o.s., (naphtha, naphthalene), 9, PG III Marine Pollutant
Emergency Response Guide Number	171

TDG

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

MEX

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

ICAO

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

IATA

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

IMDG

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

RID

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

ADR

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)

ADN

UN/ID no	UN3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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

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

LegendNPRI[®] National Pollutant Release Inventory

HMIS Health Hazard 2 flammability 1 Physical hazard 0 PERSONAL PROTECTION H

16. Other Information

Revision Date 16-Jan-2015

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