

SAFETY DATA SHEET

Issue Date 03-Jun-2015

Revision Date 03-Jun-2015

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Alto Syn D 150

Other means of identification

Product code:

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

BlueSky Lubricants
454 South Main Street
Wilkes-Barre, Pennsylvania 18703
Phone: (570) 822-1151
Fax: (570) 823-1940

Emergency telephone number

Emergency Telephone

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

EMERGENCY OVERVIEW

Signal word

Not Classified

Hazard statements

None

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Oil

Physical state Liquid

Odor Mild

Eyes None

Skin None

Inhalation None

Ingestion None

Hazards not otherwise classified (HNOC)**Other information**

- Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity

3.79239% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

| Components | CAS-No | Weight % | Trade Secret |
|------------|-------------|----------|--------------|
| Ester Oil | Proprietary | 50 - 95% | * |

4. FIRST AID MEASURES

First aid measures

- Eye contact:** Flush eye with water for 15 minutes. If symptoms persist, call a physician.
- Skin contact:** Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.
- Inhalation:** If breathing is difficult, give oxygen. Consult a physician. Move to fresh air.
- Ingestion:** Drink 1 or 2 glasses of water. Do not induce vomiting. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Carbon dioxide (CO₂). Dry chemical. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire, cool tanks with water spray.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Contaminated surfaces will be extremely slippery. Wear personal protective equipment.

Environmental precautions

Environmental precautions: Should not be released into the environment.

Methods and material for containment and cleaning up

| | |
|---------------------------------|--|
| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up: | Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. |

7. HANDLING AND STORAGE**Precautions for safe handling**

| | |
|-----------------|--|
| Handling | Always replace cap after use. Handle in accordance with good industrial hygiene and safety practice. |
|-----------------|--|

Conditions for safe storage, including any incompatibilities

| | |
|---------------------------|---|
| Storage Conditions | Keep containers dry and tightly closed to avoid moisture absorption and contamination |
|---------------------------|---|

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

| | |
|----------------------------|--|
| Exposure Guidelines | Contains mineral oil, vegetable oil, and/or synthetic oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg/m ³ , ACGIH STEL of 10 mg/m ³ . |
|----------------------------|--|

Appropriate engineering controls

| | |
|---|--|
| Engineering measures to reduce exposure: | Ensure adequate ventilation, especially in confined areas. |
|---|--|

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------------|---|
| Respiratory protection: | In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Breathing apparatus needed only when aerosol or mist is formed. |
| Hand protection: | Impervious gloves |
| Eye protection: | Safety glasses |
| Skin and body protection: | Usual safety precautions while handling the product will provide adequate protection against this potential effect |
| General Hygiene Considerations | Avoid contact with skin, eyes and clothing. Wash off with soap and water |

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

| | | | | | |
|-------------------------------------|--------------------------|-------------------------|--------------------------------------|--------------------------|--------------------------|
| Physical state | Liquid | | | | |
| Appearance | Oil | Odor | Mild | Color | Clear |
| | | | | Odor threshold | No information available |
| Property | Values | Remarks • Method | pH | Not applicable | |
| Melting point/freezing point | No information available | | Boiling point / boiling range | > 315 °C / 600 °F | |
| Flash point | > 232 °C / 450 °F | Cleveland Open Cup | Evaporation rate | No information available | |
| Flammability (solid, gas) | No information available | | Flammability Limit 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 | < 1.0 | | Water solubility | Insoluble in water | |

| | | | |
|-------------------------------------|--------------------------|----------------------------------|--------------------------|
| Solubility in other solvents | No information available | Partition coefficient | No information available |
| Autoignition temperature | No information available | Decomposition temperature | No information available |
| Kinematic viscosity | approx. 154 cSt @ 40 ° C | Dynamic viscosity | No information available |
| Explosive properties | No information available | | |
| Oxidizing properties | No information available | | |

Other information

| | |
|-------------------------|--------------------------|
| Softening point | No information available |
| Molecular weight | No information available |
| VOC Content (%) | No information available |
| Density | No information available |
| Bulk density | No information available |

10. STABILITY AND REACTIVITY

Reactivity

Not applicable

Chemical stability

Stability Stable under normal conditions

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid No special storage conditions required

Hazardous Decomposition Products

Hazardous Decomposition Products Incomplete combustion may produce small amounts of carbon oxides

Incompatible materials

Incompatible materials Oxidising agents

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Eye contact May cause slight irritation.

Skin contact Substance does not generally irritate and is only mildly irritating to the skin.

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

| Components | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-------------|-----------------------|-------------------------|-----------------|
| Ester Oil - | > 10000 mg/kg (Rat) | > 3160 mg/kg (Rabbit) | - |

Information on toxicological effects**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Sensitization No sensitization responses were observed.

| | |
|---------------------------------|--|
| Mutagenic effects: | Did not show mutagenic or teratogenic effects in animal experiments. |
| Carcinogenicity | This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP. |
| Reproductive toxicity | This product does not contain any known or suspected reproductive hazards. |
| STOT - Single Exposure | None under normal use conditions. |
| STOT - Repeated Exposure | None under normal use conditions. |
| Aspiration hazard | Not applicable. |

Numerical measures of toxicity - Product Information

| | |
|---|---|
| Unknown Acute Toxicity | 3.79239% of the mixture consists of ingredient(s) of unknown toxicity |
| The following values are calculated based on chapter 3.1 of the GHS document . | |
| ATEmix (oral) | 9985 mg/kg |
| ATEmix (dermal) | 47462 mg/kg |
| ATEmix (inhalation-dust/mist) | 4792 mg/l |
| ATEmix (inhalation-vapor) | 4792 mg/l |

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

3.921285% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Ester Oil - | |
|-----------------------------|---|
| Algae/aquatic plants | 8.6: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 |
| Fish | 0.14: 96 h <i>Pimephales promelas</i> mg/L LC50 static 0.21: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 0.26: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through |
| Crustacea | 3.96: 48 h <i>Daphnia magna</i> mg/L EC50 |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

The product is insoluble and floats on water.

| Components | Partition coefficient |
|-------------|-----------------------|
| Ester Oil - | > 4 |

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

| | |
|-------------------------------|---|
| Disposal of wastes | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated packaging | Do not reuse container. |

14. TRANSPORT INFORMATION

DOT Not Regulated by any means of transportation

15. REGULATORY INFORMATION

International Inventories

TSCA: Listed in TSCA
DSL: All of the components in this product are listed in DSL
EINECS/ELINCS This product complies with EINECS/ELINCS
CHINA: This product complies with China IECSC.
KECL: This product complies with Korea KECL.
PICCS: This product complies with Philippines PICCS.
AICS: All the constituents of this material are listed on the Australian AICS

Legend:

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

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

| | |
|--|----|
| Acute Health Hazard | No |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations (RTK)

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

| Components | NJRTK: | MARTK: | PARTK: |
|-------------|------------|------------|--------|
| Ester Oil - | Not Listed | Not Listed | Listed |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

Nfpa:

Health: 1

Flammability: 1
Instability 0
NFPA/HMIS * for Carc, Muta, Tera, Specific Organ *
HMIS health rating:
Health: 1
Flammability: 1
Physical hazards 0
Personal protection B

Issue Date 03-Jun-2015

Revision Date 03-Jun-2015

Revision Note

Not applicable

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet
