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| SAFETY DATA SHEET | | Revision Date: 07/31/2016 |
| | | Print Date: 11/1/2016 |
| | | SDS Number: 000000182681 |
| Syn Gard™ AUTOMATIC TRANSMISSION FLUID ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 718141 | | Version: 1.3 |

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Syn Gard™
AUTOMATIC TRANSMISSION FLUID
™ Trademark, Valvoline or its subsidiaries, regisred in various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Lubricant


| | |
|---|--|
| Details of the supplier of the safety data sheet Valvoline LLC 3499 Blazer Parkway Lexington, KY 40509 United States of America SDS@valvoline.com | Emergency telephone number 1-800-VALVOLINE Regulatory Information Number 1-800-TEAMVAL Product Information 1-800-TEAMVAL |
|---|--|

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin sensitization : Category 1


GHS Label element

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
Response:
IF ON SKIN: Wash with plenty of soap and water.

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If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.


SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

Hazardous components


| Chemical Name | CAS-No. | Classification | Concentration (%) |
|---|-------------|--|-------------------|
| HYDROTREATED LIGHT PARAFFINIC DISTILLATE | 64742-55-8 | Not a hazardous substance or mixture. | 50.64 |
| HYDROTREATED LIGHT PARAFFINIC DISTILLATE | 64742-55-8 | Asp. Tox. 1; H304 | 3.24 |
| Acetamide, 2-hydroxy-, N,N- dicoco alkyl derivs. | 866259-61-2 | Skin Sens. 1; H317 | 1.61 |
| LONG CHAIN HYDROXYALKYLAMINE | | Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 3; H402 Aquatic Chronic 3; H412 | 0.79 |
| 1-(tert-Dodecylthio)propan-2-ol | 67124-09-8 | Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | 0.79 |

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| BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS | | Eye Irrit. 2A; H319 Skin Sens. 1; H317 | 0.14 |
| POLYMER | | Skin Sens. 1; H317 | 0.14 |

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.
If unconscious place in recovery position and seek medical
advice.
If symptoms persist, call a physician.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get
medical attention.
If on skin, rinse well with water.
First aid is not normally required. However, it is
recommended that exposed areas be cleaned by washing
with soap and water.
Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.
- If swallowed : Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms
and effects, both acute and
delayed : Acute aspiration of large amounts of oil-laden material may
produce a serious aspiration pneumonia. Patients who
aspirate these oils should be followed for the development of
long-term sequelae. Repeated aspiration of small quantities
of mineral oil can produce chronic inflammation of the lungs
(i.e. lipoid pneumonia) that may progress to pulmonary
fibrosis. Symptoms are often subtle and radiological changes
appear worse than clinical abnormalities. Occasionally,
persistent cough, irritation of the upper respiratory tract,

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shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

May cause an allergic skin reaction.
 Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
 stomach or intestinal upset (nausea, vomiting, diarrhea)
 irritation (nose, throat, airways)


Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam
 Carbon dioxide (CO₂)
 Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide
 Hydrocarbons
 nitrogen oxides (NO_x)
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
 Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

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- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.
- Other information : Comply with all applicable federal, state, and local regulations.


SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not breathe vapours/dust.
Do not smoke.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Container hazardous when empty.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|------------|----------------------------------|---|-----------------|
| HYDROTREATED LIGHT PARAFFINIC DISTILLATE | 64742-55-8 | REL | 5 mg/m3 Mist. | NIOSH/GUID E |
| | | STEL | 10 mg/m3 Mist. | NIOSH/GUID E |
| | | PEL | 5 mg/m3 | OSHA_TRA |

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|---|------------|------|-------------------|-----------------|
| | | | Mist. | NS |
| HYDROTREATED LIGHT PARAFFINIC DISTILLATE | 64742-55-8 | REL | 5 mg/m3 Mist. | NIOSH/GUID E |
| | | STEL | 10 mg/m3 Mist. | NIOSH/GUID E |
| | | PEL | 5 mg/m3 Mist. | OSHA_TRA NS |

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

: Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection

: Wear as appropriate:
impervious clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures

: Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

: liquid

Odour

: No data available

Odour Threshold

: No data available

pH

: No data available

Melting point/freezing point


: No data available

Boiling point/boiling range

: > 392 °F / > 200 °C
(1,013.333333 hPa)
Calculated Phase Transition Liquid/Gas

Flash point

: > 390 °F / > 199 °C
Method: Cleveland open cup

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Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 0.6666667 hPa (20 °C)
Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : 0.851 g/cm³

Solubility(ies)

 Water solubility : No data available

 Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Thermal decomposition : No data available

Viscosity

 Viscosity, dynamic : No data available

 Viscosity, kinematic : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.


Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : carbon dioxide and carbon monoxide

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Hydrocarbons
Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Components:

1-(tert-Dodecylthio)propan-2-ol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal absorption under GHS.

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation in susceptible persons.

Result: Repeated exposure may cause skin dryness or cracking.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to skin

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to skin

LONG CHAIN HYDROXYALKYLAMINE:

Result: Irritating to skin

1-(tert-Dodecylthio)propan-2-ol:

Species: Rabbit


Result: Not irritating to skin

BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS:

Result: Possibly irritating to skin

POLYMER:

Result: Not irritating to skin

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Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to eyes

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to eyes

LONG CHAIN HYDROXYALKYLAMINE:

Result: Possibly irritating to eyes

1-(tert-Dodecylthio)propan-2-ol:

Species: Rabbit

Result: Not irritating to eyes

BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS:

Result: Irritating to eyes

POLYMER:

Result: Not irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components:

Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.:

Assessment: May cause sensitisation by skin contact.

Result: May cause sensitisation by skin contact.

LONG CHAIN HYDROXYALKYLAMINE:

Assessment: May cause sensitisation by skin contact.

1-(tert-Dodecylthio)propan-2-ol:

Assessment: May cause sensitization by skin contact.

Result: May cause sensitization by skin contact.

BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS:

Assessment: May cause sensitization by skin contact.

POLYMER:

Assessment: May cause sensitization by skin contact.

Germ cell mutagenicity


Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

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STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available

Carcinogenicity:

IARC

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

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.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

LONG CHAIN HYDROXYALKYLAMINE:

Ecotoxicology Assessment


Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

1-(tert-Dodecylthio)propan-2-ol:

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 0.75 mg/l
 Exposure time: 96 h
 Test Type: semi-static test
 Method: OECD Test Guideline 203
 GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC 50 (Daphnia magna (Water flea)): 0.5 mg/l
 Exposure time: 21 d
 End point: see user defined free text
 Test Type: see user defined free text
 Method: OECD Test Guideline 211
 GLP: yes

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Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION


| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / LTD. QTY. |
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|
| | | | | | |

U.S. DOT - ROAD

| |
|---------------------|
| Not dangerous goods |
| |

CFR_RAIL_C

| |
|---------------------|
| Not dangerous goods |
|---------------------|

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U.S. DOT - INLAND WATERWAYS

| |
|---------------------|
| Not dangerous goods |
|---------------------|

TDG_ROAD_C

| |
|---------------------|
| Not dangerous goods |
|---------------------|

TDG_RAIL_C

| |
|---------------------|
| Not dangerous goods |
|---------------------|

TDG_INWT_C

| |
|---------------------|
| Not dangerous goods |
|---------------------|

INTERNATIONAL MARITIME DANGEROUS GOODS

| |
|---------------------|
| Not dangerous goods |
|---------------------|

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

| |
|---------------------|
| Not dangerous goods |
|---------------------|

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

| |
|---------------------|
| Not dangerous goods |
|---------------------|

MX_DG

| |
|---------------------|
| Not dangerous goods |
|---------------------|


*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

| | |
|------------------|----|
| Marine pollutant | no |
|------------------|----|

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Acute Health Hazard

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SARA 313 Component(s)SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 Proposition 65 warnings are not required for this product based on the results of a risk assessment.

The components of this product are reported in the following inventories:

- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL.
- AUSTR : On the inventory, or in compliance with the inventory
- NZIOC : Not in compliance with the inventory
- ENCS : Not in compliance with the inventory
- KECL : On the inventory, or in compliance with the inventory
- PICCS : Not in compliance with the inventory
- IECSC : Not in compliance with the inventory

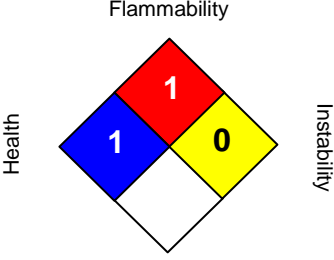
Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)


SECTION 16. OTHER INFORMATION

Further information

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|--|---|---------------|----------|---------------------|----------|------------------------|----------|
| <p>NFPA:</p> <div style="text-align: center;"> <p>Flammability</p>  <p>Health</p> <p>Instability</p> <p>Special hazard.</p> </div> | <p>HMIS III:</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: blue; color: white;">HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: red; color: white;">FLAMMABILITY</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: yellow;">PHYSICAL HAZARD</td> <td style="text-align: center;">0</td> </tr> </table> <p>0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p> | HEALTH | 1 | FLAMMABILITY | 1 | PHYSICAL HAZARD | 0 |
| HEALTH | 1 | | | | | | |
| FLAMMABILITY | 1 | | | | | | |
| PHYSICAL HAZARD | 0 | | | | | | |

NFPA Flammable and Combustible Liquids Classification

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Combustible Liquid Class IIIB

Full text of H-Statements referred to under sections 2 and 3.

| | |
|------|---|
| H290 | May be corrosive to metals. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H373 | May cause damage to organs through prolonged or repeated exposure if swallowed. |
| H400 | Very toxic to aquatic life. |

Further information


Sources of key data used to compile the Safety Data Sheet
Valvoline internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-825-8654).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists
BEI : Biological Exposure Index
CAS : Chemical Abstracts Service (Division of the American Chemical Society).
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
FG : Food grade
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
H-statement : Hazard Statement
IATA : International Air Transport Association.
IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization
ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
IMDG : International Maritime Code for Dangerous Goods
ISO : International Organization for Standardization
logPow : octanol-water partition coefficient
LCxx : Lethal Concentration, for xx percent of test population

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LDxx : Lethal Dose, for xx percent of test population.
 ICxx : Inhibitory Concentration for xx of a substance
 Ecxx : Effective Concentration of xx
 N.O.S.: Not Otherwise Specified
 OECD : Organization for Economic Co-operation and Development
 OEL : Occupational Exposure Limit
 P-Statement : Precautionary Statement
 PBT : Persistent , Bioaccumulative and Toxic
 PPE : Personal Protective Equipment
 STEL : Short-term exposure limit
 STOT : Specific Target Organ Toxicity
 TLV : Threshold Limit Value
 TWA : Time-weighted average
 vPvB : Very Persistent and Very Bioaccumulative
 WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
 DOT : Department of Transportation
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act
 HMIRC : Hazardous Materials Information Review Commission
 HMIS : Hazardous Materials Identification System
 NFPA : National Fire Protection Association
 NIOSH : National Institute for Occupational Safety and Health
 OSHA : Occupational Safety and Health Administration
 PMRA : Health Canada Pest Management Regulatory Agency
 RTK : Right to Know
 WHMIS : Workplace Hazardous Materials Information System