Conforms to HazCom 2012/United States

SAFETY DATA SHEET

386 SynTuff® HD-MTF Full Synthetic SAE 40

Section 1. Identification

GHS product identifier : 386 SynTuff® HD-MTF Full Synthetic SAE 40

Product type : Liquid

Identified uses : Heavy duty on-road transmission fluid.

Supplier's details : Schaeffer Mfg. Company
2600 South Broadway
Saint Louis, Missouri 63118
Tel: 314-865-4100
Fax: 314-865-4107
Toll Free: 1-800-325-9962
E-Mail: safety@schaefferoil.com
Web: www.schaefferoil.com

Emergency Phone Number (with hours of operation) : +1 314 865-4105 (24-hour response number)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : REPRODUCTIVE TOXICITY – Category 2
AQUATIC HAZARD (LONG-TERM) – Category 4

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : Suspected of damaging fertility or the unborn child. May cause long lasting harmful effects to aquatic life.

Precautionary statements

Prevention : Obtain, read and follow all safety instructions before use. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands, forearms, and face thoroughly after handling. Avoid release to the environment. Keep out of reach of children.

Response : If exposed or concerned: Get medical advice/attention.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

Ingredient Name	%	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	40-60	65742-54-7
1-Decene homopolymer hydrogenated	5-15	68037-01-4
Hexanedioic acid, 1, 6-diisodecyl ester	5-15	27178-16-1
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated	1 - <5	134758-95-5
N,N-bis(2-ethylhexyl)-ar-methyl-1H-benzotriaozle-1-methanamine	0.1 - <1	94270-86-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Rinse eyes with water as a precaution.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in recovery position. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Take off contaminated clothing. Get medical attention if symptoms occur. Wash clothing and clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Section 4. First aid measures

Over-exposure signs/symptons

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments : No specific treatment.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
toxic fumes may be released

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also information in “For non-emergency personnel.”

Section 6. Accidental release measures

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. U.S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to all applicable Federal, State, Provincial and local authorities and/or the United States National Response Center at (800) 424-8802 as appropriate or required.

Methods and materials for containment and clean up

Small spill : Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	**OSHA PEL (United States)** TWA: 5 mg/m^3 8 hours. **ACGIH TLV (United States)** TWA: 5 mg/m^3 8 hours. Form: Inhalable fraction. **NIOSH REL (United States)** TWA: 5 mg/m^3 10 hours. Form: Mist. STEL: 10 mg/m^3 15 minutes. Form: Mist
1-Decene homopolymer hydrogenated	None.
Hexanedioic acid, 1,6-diisodecyl ester	None.
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated	None.
N,N-bis(2-ethylhexyl)-ar-methyl-1H-benzotriaozle-1-methanamine	None.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Wear eye protection such as safety glasses, chemical goggles, or face shields if engineering controls or work practices are not adequate to prevent eye contact.

Skin protection

Hand protection : Use nitrile or oil resistant gloves.

Section 8. Exposure controls and personal protection

Body protection : Personal protective clothing such as gloves, aprons, boots and complete facial protection should be selected based on the task being performed and the risks involved. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

Respiratory protection : If a risk assessment indicates that respiratory protection is required, use a properly fitted, air-purifying or supplied air respirator that complies with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Blue-green.
Odor	: Mild petroleum.
Odor threshold	: Not available.
pH	: Not applicable.
Melting point/Dropping point	: Not available.
Boiling pint	: Not applicable.
Flash point	: 213°C (416°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: >1 [Air = 1]
Relative density	: 0.8523
Solubility	: Insoluble in water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic 100°C (212°F): 14.50 to 16.49 cSt
Volatility	: Not available.
VOC content	: Not available.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Incompatible materials : Reactive or incompatible with the following materials: Strong acids, bases and oxidizers.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy paraffinic	LD50 Oral LC50 Inhalation LD50 Dermal	Rat Rat Rabbit	>5000 mg/kg >5.53 mg/l (mist) >2000 mg/kg	- 4 hours -
1-Decene homopolymer hydrogenated	LD50 Oral LC50 Inhalation LD50 Dermal	Rat Calculated Calculated	>5000 mg/kg 5.25 mg/l (mist) 2,500 mg/kg	- 4 hours -
Hexanedioic acid, 1,6-diisodecyl ester	LD50 Oral	Rat	>2,000 mg/kg	-
N,N-bis(2-ethylhexyl)-ar-methyl-1H-benzotriaozle-1-methanamine	LD50 Oral LD50 Dermal	Rat Rat	>5000 mg/kg >2000 mg/kg	- -

Irritation/Corrosion

There is no data available.

Sensitization

May cause an allergic skin reaction.

Carcinogenicity

There is no data available.

Reproductive toxicity

Product/ingredient name	Result	Species	Dose	Exposure	OECD
N,N-bis(2-ethylhexyl)-ar-methyl-1H-benzotriaozle-1-methanamine	NOAEL (male, F1) NOAEL Oral	Rat Rat	54 mg/kg 25 mg/kg	- 90 days	443 422

Section 11. Toxicological information

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Distillates (petroleum), hydrotreated heavy paraffinic	Acute EC50 >100 mg/L Acute IC50 >100 mg/L Acute LC50 >100 mg/L	Daphnia Algae Fish	48 hours 72 hours 96 hours
1-Decene homopolymer hydrogenated	Acute EC50 > 1000 mg/l Acute EL50 > 1000 mg/l Acute LC50 > 750 mg/l	Algae Daphnia Fish	96 hours 48 hours 96 hours
Hexanedioic acid, 1,6-diisodecyl ester	Acute EC50 >WSL Acute LC50 >WSL	Daphnia Fish	48 hours 96 hours
N,N-bis(2-ethylhexyl)-ar-methyl-1H-benzotriaozle-1-methanamine	Acute LC50 > 100 mg/l Acute EC50 51 mg/l Acute EC50 > 100 mg/l Acute ErC50 > 100 mg/l	*Danio rerio* Daphnia Algae Algae (Growth Inhibition Test)	- - 72 hours 72 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), hydrotreated heavy paraffinic	-	-	Inherent
Hexanedioic acid, 1,6-diisodecyl ester	-	-	Readily biodegradable
N,N-bis(2-ethylhexyl)-ar-methyl-1H-benzotriaozle-1-methanamine	-	-	Not readily degradable

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Distillates (petroleum), hydrotreated heavy paraffinic	3.9 to 6	-	high
Hexanedioic acid, 1,6-diisodecyl ester			low
N,N-bis(2-ethylhexyl)-ar-methyl-1H-benzotriaozle-1-methanamine	>5	1730	500 ≤ BCF ≤ 5000

Mobility in soil

Product/ingredient name	Log Koc	Mobility in Soil	Ecology - soil
N,N-bis(2-ethylhexyl)-ar-methyl-1H-benzotriaozle-1-methanamine	3.754-8.947	60460 Source: EPISUITE	Adsorbs

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

DOT Classification : Not regulated.
IMDG : Not regulated.
IATA/ICAO : Not regulated.
AERG : Not applicable

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulation : **United States inventory (TSCA 8b):** All components are listed or exempted.

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : REPRODUCTIVE TOXICITY – Category 2

Composition/information on ingredients

Name	Classification
Distillates (petroleum), hydrotreated heavy paraffinic	ASPIRATION HAZARD – Category 1
1-Decene homopolymer hydrogenated	ASPIRATION HAZARD – Category 1
N,N-bis(2-ethylhexyl)-ar-methyl-1H-benzotriaozle-1-methanamine	REPRODUCTIVE TOXICITY – Category 2

SARA 313 : No products were found.

State regulations

Massachusetts : Diphenylamine, bis(2-ethylhexyl) amine, naphthalene.
New York : Naphthalene.
New Jersey : Diphenylamine, naphthalene.
Pennsylvania : Diphenylamine, bis(2-ethylhexyl) amine, naphthalene.

California Prop. 65

WARNING: This product may expose you to chemicals including naphthalene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health: 1 **Flammability:** 1 **Physical hazards:** 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health: 1 **Flammability:** 1 **Instability:** 0

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