

### SAFETY DATA SHEET

### **AMSOIL Injector Oil**

### Section 1. Identification

Date : 04/15/2017

Version: 4

GHS product identifier : AMSOIL Injector Oil

Code : AIO : Liquid.

Identified uses : Lubricating Oil. Not to be misted.

Manufacturer : AMSOIL INC.

One AMSOIL Center Superior, WI 54880 Tel: +1 715-392-7101

Initial Supplier : AMSOIL INC.

(Canada) Bordner, Ladner, Gervais

Scotia Plaza, 40 King St W Toronto, ON, Canada M5H 3Y4

Tel: +1 416-367-6547

**Emergency telephone** 

number (with hours of

operation)

: CHEMTREC: Within USA and Canada: 1-800-424-9300;

Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

(24/7)

# 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 : FLAMMABLE LIQUIDS - Category 4 substance or mixture : CARCINOGENICITY - Category 2

**GHS label elements** 

Hazard pictograms :



Signal word : Warning

**Hazard statements** : Combustible liquid.

Suspected of causing cancer.

**Precautionary statements** 

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have

been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from flames and hot surfaces. - No smoking.

**Response** : IF exposed or concerned: Get medical attention.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

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

international regulations.

### **Hazards not otherwise classified (HNOC)**

Physical hazards not otherwise classified

: None known.

(PHNOC)

Health hazards not otherwise classified

: None known.

(HHNOC)

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

### **CAS** number/other identifiers

**CAS number** : Not applicable.

Product code : AIO

Ingredient name	%	CAS number
Hydrogenated Base Oil (64742-47-8)	15 - 25	64742-47-8
Hydrogenated Base Oil (64742-48-9)	15 - 25	64742-48-9
Synthetic Ester	10 - 15	-
Hydrocarbyl amine	5 - 10	-
Cumene	0.1 - 1	98-82-8

\*HMIRA registration number : 10945 \*HMIRA filing date : 2017-01-05

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 : Immediatel

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20

minutes. Get medical attention.

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. Maintain an open airway. Get medical

attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Continue to rinse for at least 20 minutes. Get medical attention.

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Ingestion

: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

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

### Over-exposure signs/symptoms

Eye contact
 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing media

: Do not use water jet or water-based fire extinguishers.

Specific hazards arising from the chemical

: Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products

: No specific data.

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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

: Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

Spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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 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). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Avoid contact with used product. 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 a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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/personal protection

### **Control parameters**

### Occupational exposure limits

Under conditions which may generate mists, the following additional exposure limits are recommended: ACGIH TLV TWA: 5 mg/m³; STEL: 10 mg/m³.

### **United States**

Ingredient name	Exposure limits
Cumene	ACGIH TLV (United States, 3/2015).  TWA: 50 ppm 8 hours.  NIOSH REL (United States, 10/2013). Absorbed through skin.  TWA: 50 ppm 10 hours.  TWA: 245 mg/m³ 10 hours.  OSHA PEL (United States, 2/2013). Absorbed through skin.  TWA: 50 ppm 8 hours.  TWA: 245 mg/m³ 8 hours.

#### Canada

### Occupational exposure limits

Ingredient name	Exposure limits
Cumene	CA Alberta Provincial (Canada, 4/2009).  8 hrs OEL: 50 ppm 8 hours.  8 hrs OEL: 246 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 5/2015).  TWA: 25 ppm 8 hours.  STEL: 75 ppm 15 minutes.  CA Ontario Provincial (Canada, 7/2015).  TWA: 50 ppm 8 hours.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 50 ppm 8 hours.  TWAEV: 246 mg/m³ 8 hours.  CA Saskatchewan Provincial (Canada).  STEL: 74 ppm 15 minutes.  TWA: 50 ppm 8 hours.

# 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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# **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** : Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-

shields.

**Skin protection** 

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be

worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

**Body protection**: Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before

handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the

appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important

aspects of use.

## Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : Blue.

Odor : Mild hydrocarbon.
Odor threshold : Not available.
pH : Not available.

Melting point : -57°C (-70.6°F)

Boiling point : Not available.

Flash point : Open cup: 86°C (186.8°F) [Cleveland.]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 0.8639

Solubility : Not available.

Partition coefficient: n- : Not available.

octanol/water

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Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

**Viscosity** : Kinematic: 0.066 cm<sup>2</sup>/s (6.6 cSt) (100°C)

Kinematic: 0.329 cm<sup>2</sup>/s (32.9 cSt) (40°C)

Volatility : Not available.

# Section 10. Stability and reactivity

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

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

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

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

**Incompatible materials**: Reactive or incompatible with the following materials: oxidizing materials.

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
Hydrogenated Base Oil (64742-48-9)	LD50 Oral	Rat	>6 g/kg	-
Cumene	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	1400 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Cumene	Eyes - Mild irritant Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit Rabbit	-	24 hours 500 mg 86 mg 24 hours 10 mg	- - -

### **Sensitization**

There is no data available.

### **Carcinogenicity**

### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Cumene	-	2B	Reasonably anticipated to be a human carcinogen.

Specific target organ toxicity (single exposure)

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Name	Category	Target organs
Cumene	Category 3	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

There is no data available.

### **Aspiration hazard**

Name	Result
Hydrogenated Base Oil (64742-48-9)	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact
 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.
 No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 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.
 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** : No known significant effects or critical hazards.

effects

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

Long term exposure

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

effects

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

Potential chronic health effects

General : No known significant effects or critical hazards.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

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
Cumene	Acute LC50 2200 μg/l Fresh water	Fish - Lepomis macrochirus	4 days
	Acute EC50 2600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 7400 μg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 10600 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2700 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

There is no data available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Hydrogenated Base Oil (64742-48-9)	-	10 to 2500	high
Cumene	3.55	94.69	low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: There is no data available.

Mobility : There is no data available.

Other adverse effects : No known significant effects or critical hazards.

# 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 should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

AIO **AMSOIL Injector Oil** 

# **Section 14. Transport information**

	DOT	TDG	IMDG	IATA
UN number	NA1993	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	COMBUSTIBLE LIQUID, N.O. S. (Hydrogenated Base Oil (64742-48-9), Hydrogenated Base Oil (64742-47-8))	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	III	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials.	-	-	-

**AERG** : 128

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 and the IBC Code

: Not available.

# **Section 15. Regulatory information**

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

Clean Water Act (CWA) 307: Toluene; Benzene; Ethylbenzene; Naphthalene

Clean Water Act (CWA) 311: Toluene; Benzene; Ethylbenzene; Naphthalene; Xylene

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)** 

: Not listed

: Listed

Clean Air Act Section 602

Class I Substances

Clean Air Act Section 602 **Class II Substances** 

: Not listed

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**DEA List I Chemicals** 

IS

(Precursor Chemicals)

: Not listed

: Not listed

**DEA List II Chemicals** (Essential Chemicals)

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

**Classification**: Fire hazard

Delayed (chronic) health hazard

### **Composition/information on ingredients**

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Hydrogenated Base Oil (64742-47-8)	Yes.	No.	No.	No.	No.
Hydrogenated Base Oil (64742-48-9)	Yes.	No.	No.	No.	No.
Hydrocarbyl Amine	No.	No.	No.	Yes.	No.
Cumene	Yes.	No.	No.	Yes.	Yes.

### **SARA 313**

No products were found.

**State regulations** 

**Massachusetts**: None of the components are listed.

New York : The following components are listed: Cumene
New Jersey : The following components are listed: Cumene

Pennsylvania : The following components are listed: Hydrogenated Base Oil (64742-47-8); Cumene

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Cumene	Yes.	No.	No.	No.
Ethylbenzene	Yes.		41 μg/day (ingestion) 54 μg/day (inhalation)	No.
Toluene	No.	Yes.	No.	7000 μg/day (ingestion)
Benzene	Yes.		, ,	24 μg/day (ingestion) 49 μg/day (inhalation)
Naphthalene	Yes.	No.	Yes.	No.

### Canada

**Canadian lists** 

Canadian NPRI: The following components are listed: Hydrogenated Base Oil (64742-47-8);

Hydrogenated Base Oil (64742-48-9)

**CEPA Toxic substances**: None of the components are listed.

**Canada inventory** : All components are listed or exempted.

### Section 16. Other information

### **History**

Date of issue mm/dd/yyyy : 04/15/2017

Date of previous issue : 11/15/2016

Version : 4

Prepared by : AMSOIL INC.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.