

**XTC 100% Syn. 5W-20 MO**

**Product Number:**  
**MSDS Revision Date:**

**22900**  
**02/11/2014**

<b>SECTION 1: Identification of the substance/mixture and of the company/undertaking</b>
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**1.1. Product identifier** XTC 100% Syn. 5W-20 MO

Product Code 22900

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Intended use See Technical Data Sheet.

**1.3. Details of the supplier of the safety data sheet**

**Manufacturer for** Bardahl Mfg. Corp.  
1400 NW 52nd St.  
Seattle, WA 98107 USA

**Telephone No.** (206) 783-4851

**1.4. Emergency telephone**

**number** (800) 424-9300 24hr

<b>SECTION 2: Hazards identification</b>
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**2.1. Classification of the substance or mixture**

Not Classified

**2.2. Label elements**

Using the Toxicity Data listed in section 11 & 12 the product is labeled as follows.

Not Classified

<b>HMIS</b>	<b>Health:</b>	0	<b>NFPA</b>	<b>Health:</b>	0
	<b>Fire:</b>	1		<b>Fire:</b>	1
	<b>Physical Hazards:</b>	0		<b>Reactivity:</b>	0
	<b>PPE:</b>	C		<b>Special Hazards:</b>	--

**2.3. Other hazards**

This product contains no PBT/vPvB chemicals.

**SECTION 3: Composition/information on ingredients**

Ingredient/Chemical Designations	Weight %	EC No. 1272/2008 / GHS Classification
<b>PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFIN</b> CAS Number: 0064742-54-7	<90	Not Classified
<b>Mineral Oil</b> CAS Number: Proprietary or N/A	<20	Not Classified
<b>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts</b> CAS Number: 0068649-42-3	<3	Not Classified

\*The full texts of the phrases are shown in Section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General**

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

**Inhalation**

If inhaled, remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. If unconscious, place in the recovery position and seek medical attention immediately.

**Skin**

In case of contact, immediately rinse skin with plenty of water. Remove contaminated clothing and shoes. If skin irritation occurs, seek medical attention. Launder contaminated clothing before reuse.

**Eye**

In case of contact, immediately rinse eyes with plenty of fresh, clean water for at least 15 minutes. Remove contact lenses if present and continue rinsing. Seek medical attention immediately.

**Ingestion**

Do not induce vomiting. Call a physician or emergency medical facility immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

No data available

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5: Fire-fighting measures****5.1. Extinguishing media**

Use Carbon dioxide (CO<sub>2</sub>), dry chemical, or foam to extinguish flames.

**5.2. Special hazards arising from the substance or mixture**

Hazardous Decomposition Products: May form CO and CO<sub>2</sub>.

### 5.3. Advice for fire-fighters

Self-contained full-face positive pressure breathing apparatus (SCBA) should be used. Water can be used to cool and protect exposed material. Do not allow runoff water and contaminants from fire fighting to enter drains or water courses.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled material. Use suitable personal protective equipment. Ventilate area if spilled in confined space or other poorly ventilated areas. Evacuate personnel to safe areas. Keep unnecessary personnel away.

### 6.2. Environmental precautions

Prevent entry into sewers and waterways. Report spills as required to appropriate authorities in accordance with all applicable regulations.

### 6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or water courses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Handling

Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing vapor. Use with adequate ventilation.

#### In Storage

Store in a dry location at room temperature.

Keep this container and vapors from the container away from heat and flame. Keep container closed and maintain all original markings and labels.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from strong oxidizing and reducing agents.

CAUTION!!! Do not use cutting or welding torches on drums, even when empty. Do not reuse container. Containers, even those that have been emptied will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

### 7.3. Specific end use(s)

There are no exposure scenarios, see details in section 1.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

The following occupational exposure limits have been established.

CAS Number	Ingredient	Source	Value
0064742-54-7	PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFIN	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0068649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
Proprietary or N/A	Mineral Oil	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Contains mineral oil. The exposure limits for oil mist are 5 mg/m<sup>3</sup> OSHA PEL and 10 mg/m<sup>3</sup> ACGIH.

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
0064742-54-7	PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFIN	OSHA	Select Carcinogen: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0068649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	OSHA	Select Carcinogen: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
Proprietary or N/A	Mineral Oil	OSHA	Select Carcinogen: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;

**DNEL/PNEC values**

No Data Available

**8.2. Exposure controls**

No special requirements under ordinary conditions of use and with adequate ventilation.

**Eye/face protection**

Wear safety glasses. If potential for splash or mist exists, wear chemical goggles or face shield.

**Skin protection**

Wear chemical resistant gloves. Gloves should be inspected before each use and discarded if they show tears, pinholes, or signs of wear.

**Other**

Gloves, overalls, apron, boots, or other suitable protective garments should be worn to minimize contact based on the task being performed.

**Respiratory protection**

Use NIOSH/OSHA approved respirator where high vapor concentrations are present.

**Thermal hazards**

No Data Available

**SECTION 9: Physical and chemical properties**

<b>Appearance</b>	AMBER OILY LIQUID
<b>Odor</b>	Petroleum Odor
<b>Odor threshold</b>	Not Determined
<b>pH</b>	Not Determined
<b>Melting point / freezing point (C)</b>	Not Determined
<b>Initial boiling point and boiling range (C)</b>	> 300
<b>Flash point (C)</b>	> 200
<b>Evaporation rate (H20 = 1)</b>	Not Determined
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Lower Explosive Limit:</b>	Not Determined
<b>Upper Explosive Limit:</b>	Not Determined
<b>Vapor pressure (Pa)</b>	Not Determined
<b>Vapor density</b>	Heavier than air.
<b>Relative density</b>	0.8506
<b>Solubility(ies)</b>	negligible
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Determined
<b>Auto-ignition temperature (C)</b>	Not Determined
<b>Decomposition temperature</b>	Not Determined
<b>Viscosity (cSt)</b>	
<b>@ 100 C</b>	Not Measured
<b>@ 40 C</b>	Not Measured
<b>Pour point temperature (C)</b>	Not Determined
<b>Volatile Organic Compounds</b>	nil
<b>SADT</b>	Not Determined

The data listed above are typical physical and chemical properties that do not constitute product specification.

**9.2. Other information**

DMSO extract by IP346: Less than 3.0 wt % (mineral oil component only)

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No data available

**10.2. Chemical stability**

Material is normally stable at ambient temperature and pressure.

**10.3. Possibility of hazardous reactions**

May react with: oxidizing agents.

**10.4. Conditions to avoid**

High temperature, sparks, and open flames.

**10.5. Incompatible materials**

Keep away from strong oxidizing and reducing agents.

**10.6. Hazardous decomposition products**

Hazardous Decomposition Products: May form CO and CO<sub>2</sub>.

**SECTION 11: Toxicological information**

**Acute toxicity**

The preparation has been assessed using the Acute Toxicity Data listed below, and classified for toxicological hazards accordingly. See section 2 for details.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation vapor LD50, mg/L/4hr
Mineral Oil - (Proprietary or N/A)	Not Available	Not Available	Not Available
PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFIN - (0064742-54-7)	>5,000, Rat	>5,000, Rabbit	Not Available
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts - (0068649-42-3)	>2,000, Rat	>2,000, Rabbit	5.00, Rat

Classification	Category	Hazard Description
Acute toxicity (oral)	Not Classified	Not Applicable
Acute toxicity (dermal)	Not Classified	Not Applicable
Acute toxicity (inhalation)	Not Classified	Not Applicable
Skin corrosion/irritation	Not Classified	Not Applicable
Serious eye damage/irritation	Not Classified	Not Applicable
Respiratory sensitization	Not Classified	Not Applicable
Skin sensitization	Not Classified	Not Applicable
Germ cell mutagenicity	Not Classified	Not Applicable
Carcinogenicity	Not Classified	Not Applicable
Reproductive toxicity	Not Classified	Not Applicable
STOT-single exposure	Not Classified	Not Applicable
STOT-repeated exposure	Not Classified	Not Applicable
Aspiration hazard	Not Classified	Not Applicable

**SECTION 12: Ecological information****12.1. Toxicity**

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment

**Aquatic Ecotoxicity**

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFIN - (0064742-54-7)	Not Available	Not Available	Not Available
Mineral Oil - (Proprietary or N/A)	Not Available	Not Available	Not Available
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts - (0068649-42-3)	Not Available	Not Available	Not Available

**12.2. Persistence and degradability**

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Consult federal, state and local regulations regarding disposal methods, recycle used oil. Do not contaminate used oil with solvents or other chemicals.

## SECTION 14: Transport information

14.1. UN number	Not applicable
14.2. UN proper shipping name	Not regulated
14.3. Transport hazard class(es)	

US DOT Label	Not regulated
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ADR/RID	Not regulated
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IMDG	Not regulated
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Sub Class Not applicable

14.4. Packing group	Not applicable
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### 14.5. Environmental hazards

ADR/RID	Environmentally Hazardous: No - Not regulated
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IMDG	Marine Pollutant: No - Not regulated
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### 14.6. Special precautions for user

No further information

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

## SECTION 15: Regulatory information

### National Legislation

United States:

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are

represented.

All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

**SARA 311/312 (>0.1%):** Not applicable

**SARA 313 (>0.1%):**

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

**CERCLA (>0.1%):**

Mineral Oil

**Inventory - Canada - Non-Domestic Substances List (NDSL):** Not applicable

**California Proposition 65 Cancer:** Not applicable

**California Proposition 65 Developmental:** Not applicable

**California Proposition 65 Female Reproductive:** Not applicable

**California Proposition 65 Male Reproductive:** Not applicable

**Inventory - Australia - Inventory of Chemical Substances (AICS):**

Mineral Oil

PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFIN

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

**Inventory - Japan Existing and New Chemical Substances (ENCS):**

PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFIN ( )

**Korean Existing Chemicals Inventory:**

PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFIN

**Inventory of Existing Chemical Substances in China:**

Mineral Oil

PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFIN

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**

Mineral Oil

PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFIN

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

**Taiwan List of Toxic Chemical Substances regulated under Toxic Chemical Substances Control Act :** Not applicable



**EU REACH: Annex XVII,  
Dangerous Substances and  
Preparations:**

PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFIN

**Inventory - European Union -  
European Inventory of Existing  
Commercial Chemical  
Substances (EINECS):**

Mineral Oil ( )

PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFIN (265-157-1)

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (272-028-3)

**EU List of Notified Chemical  
Substances (ELINCS):** Not applicable

Risk Phrases

Not Classified.

**SECTION 16: Other information**

This information has been compiled from sources considered to be dependable and is accurate to the best of Bardahl Manufacturing Corporation knowledge. Bardahl Manufacturing Corporation makes no warranty whatsoever, expressed or implied, of MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from the use thereof. Bardahl Manufacturing Corporation assumes no responsibility for injury to recipient or third persons, or for any damage to any property and recipient assumes all such risks.

The full text of the phrases appearing in section 3 is:

**This is the first revision of this SDS format, changes from previous revision not applicable.**

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