



MATERIAL SAFETY DATA SHEET

Ford Internal Reference Number(Tox No. : 139377)

Print Date : 09/19/03

Language: English

Part Type and Number	Part name
Motorcraft - U.S. XG-4	MOTORCRAFT MULTI-PURPOSE GREASE (4 OZ TUBE)

Approved to Active Production-North American spec ESB-M1C93-B

===== CHEMICAL AND PHYSICAL PROPERTIES =====

Appearance :	Physical State	GREASE
	Form	GREASE
	Color	TAN
Specific Gravity (Relative Density)		0.904
Boiling Point		>+288 °C
Flash Point		+227 °C (+440 F) (CLEVELAND OPEN CUP)
pH full strength		-
pH diluted		-
Odor		BLAND
Odor Threshold		-
Viscosity		1,000 at +37.8C
Vapor Density		>5 (AIR=1)
Vapor Pressure		0.01
Evaporation Rate		<0.01 (N-BUTYL ACETATE=1)
Freezing Point		-22 °C
Explosion Properties :	UEL	7.0
	LEL	0.9
Auto-ignition Temperature		-
Solubility		NEGLIGIBLE
Partition Coefficient		-

===== HAZARDOUS AND OTHER DISCLOSED INGREDIENTS =====

Percent Range	Exposure Limits - TWA ACGIH/OSHA(where est.)	CAS number	Chemical Name
45-50	5/5 Ford= 1.0 mg/m3	64742-62-7	RESIDUAL OILS (PETROLEUM), SOLVENT DEWAXED
35-40	5/5 Ford= 1.0 mg/m3	64742-52-5	PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC
0-3	Not Regulated	68649-42-3	PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS

Exposure Limit Abbreviations

TWA=Time Weighted Average C=Ceiling
S=Short Term Exposure Sk=Skin
Sol=Soluble Compounds Fu=Fumes
Insol=Insoluble Compounds Du=Dust I=IARC Resp=Respirable

===== REGULATORY INFORMATION =====

This product contains an ingredient present on the WHMIS (0.1%) Ingredient Disclosure List.

This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

The supplier of this product did not provide information concerning the classification of this product under the Canadian Controlled Products Act.

===== SIGNAL WORD =====



===== HEALTH HAZARD INFORMATION =====

=(A)===== HAZARDS =====

Exposure to oil mist/fume/vapor may cause respiratory tract irritation.
Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.
This product may cause irritation to the eyes.

=(B)===== TARGET ORGANS AND MEDICAL CONDITIONS =====

Overexposure to some hazardous ingredients in this product has been found to affect certain body organs and systems in experimental animals and/or humans. These include:
Skin, Eyes, and Respiratory System
Medical conditions which may be aggravated by exposure to this product are pre-existing disorders of the:
Skin, Eyes, and Respiratory System

=(C)===== ACUTE TOXICITY INFORMATION =====

Based on the composition of the product identified by the supplier, selected portions of the acute toxicity information from RTECS are as follows:

9002-88-4 POLYETHYLENE
Inhalation, mouse, LC50 = 12 gm/m3 (30 Minutes)

===== FIRE AND EXPLOSION INFORMATION =====

EXTINGUISHER INFORMATION: Dry chemical, foam, carbon dioxide, water fog.
Wear self-contained breathing apparatus.
Water or foam may cause frothing if the product is heated above

93 degrees C (200 degrees F).

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Water may be used to cool exposed containers to prevent pressure build-up and explosion when exposed to extreme heat.

===== REACTIVITY DATA =====

This is a stable material.

Hazardous polymerization will not occur.

This product may react with strong oxidizing agents (bleach--sodium hypochlorite, calcium hypochlorite, hydrogen peroxide, permanganate, nitric acid, concentrated OXYGEN, perchlorates).

===== PREVENTIVE MEASURES =====

=(A)===== SAFE HANDLING AND STORAGE =====

Avoid getting this material into contact with your eyes.

Avoid prolonged or repeated skin contact with this material.

Use this product with adequate ventilation.

Avoid the generation of oil mists.

Petroleum distillate base oils used in the product are severely hydrotreated and/or solvent refined.

=(B)===== PROTECTIVE MEASURES =====

Wear safety glasses.

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

The use of nitrile-latex gloves is recommended.

Barrier creams that are specific for oil based materials are recommended when gloves are impractical to use.

Use NIOSH approved respirator in compliance with OSHA Respiratory Standard 29CFR 1910.134 or Canadian Z94.4 for the particular hazard or airborne concentration to be encountered in the work environment. U.S. plants should consult OSHA 29CFR 1910.134 for selection of proper respirator(s). Canadian plants should consult CSA Standard Z94.4-96

=(C)===== SPILLS, LEAKS AND DISPOSAL =====

Wear appropriate protective equipment and clothing during clean-up.

Attempt to reclaim the free product, if this is possible.

Waste disposal - This material should be disposed of separately or with plant used motor oils, indicating the material's potential to cause skin cancer with prolonged and repeated contact.

Transport waste material to an authorized waste location, or incinerate under controlled conditions.

Absorb the spilled material with an inert absorbent (nonflammable) material.

Vacuum up the spilled material.

Avoid excessive skin contact with the spilled material.

Do not allow the spilled product to enter public drainage system or open water courses.

Surfaces may become slippery after spillage.

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulation.

===== FIRST AID TREATMENT =====

In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

Remove contaminated clothing and wash before reuse.

If the material is swallowed, get immediate medical attention or advice --

Do not induce vomiting.

Wash thoroughly after handling.

If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed), immediately remove the affected person(s) to fresh air.

===== ENVIRONMENTAL INFORMATION: ECOLOGY =====

Material contains a chemical which is a Ford Motor Company Material of Concern. Use and release of this material should be minimized to the greatest extent possible.

===== Transport Information =====

U.S. Department of Transportation (DOT) 49 - CFR 172.101

This product is not regulated as a dangerous good.

Canadian Transportation of Dangerous Goods (T.D.G.) -TDGR

This product has not been reviewed for this regulation.

Secretary of Communication and Transportation (SCT)- NOM-002-SCT2/1994 (Mexico)

This product has not been reviewed for this regulation.

International and Domestic Air Transportation - ICAO & IATA Section 4.2

This product has not been reviewed for this regulation.

International Water Transportation - IMDG Code Amendment 31-02

This product has not been reviewed for this regulation.

===== PREPARATION INFORMATION =====

Health and safety information has been evaluated by:

Occupational & Environmental Health Sciences Department
Ford Motor Company
Central Laboratory Building - Rm S-120
15000 Century Drive
Dearborn, Michigan 48120

For 24 hour emergency information dial 1-800-959-3673.

This is the last page of this MSDS.

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