SAFETY DATA SHEET

Product : **EP/MP 1004**
Date Prepared : 2016-01-10

1 - Product and Company Identification

Product Name/Identifier : EP/MP 1004
Other name / Synonym : Grease
Company Information : Robco Inc.
Address : 7200 St.Patrick, LaSalle QC Canada H8N 2W7
Telephone : 514-367-2252
Email : info@robco.com
Website : www.robco.com

2 - Hazards identification

GHS Classification
Eye irritation : Category 2A
GHS label elements
Hazard pictograms :
Signal word : Warning
Hazard statements : H319 Causes serious eye irritation.
Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear eye protection/ face protection.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
Other hazards
None known.

3 Composition/information on ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	>= 70 - < 90
calcium carbonate	471-34-1	>= 5 - < 10
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	>= 1 - < 5
calcium dodecylbenzenesulphonate	26264-06-2	>= 1 - < 5
bis(nonylphenyl)amine	36878-20-3	>= 1 - < 5
Sulfonic acids, petroleum, calcium salts	61789-86-4	>= 1 - < 5

4 First aid measures

If inhaled :
Remove to fresh air.

Aspiration may cause pulmonary oedema and pneumonitis.
If breathing is difficult, oxygen may be given by qualified personnel.
If symptoms persist, call a physician.

In case of skin contact :

Wash off with warm water and soap.
If hot material contacts skin, immediately cool before attempting removal.
If skin irritation persists, call a physician.
If high pressure forces the product under the skin get immediate medical attention!
In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
Get medical attention immediately.

If swallowed :

Obtain medical attention.
Never give anything by mouth to an unconscious person.
Not expected to be toxic by ingestion.
Most important symptoms and effects, both

5 Firefighting measures

Suitable extinguishing media : (on small fires)

Carbon dioxide (CO2)
Dry chemical
Dry sand
- vermiculite
Extinguishing media - large fires
Treat as an oil fire.
- water fog
Foam

Unsuitable extinguishing media :

Oil will float on water and can spread any fire.

Further information :

Cool containers/tanks with water spray.

Special protective equipment for firefighters :

Self-contained breathing apparatus with full face-piece operated in positive pressure mode.
Body covering protective clothing, full "turn-out" gear.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures :

Wear suitable protective equipment.

Environmental precautions :

Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up :

Stop the leak if it can be done without risk.
Clean-up methods - large spillage
Dam up.
Large spills should be collected mechanically (remove by pumping) for disposal.
Small spill:
Soak up with inert absorbent material.
Transfer absorbent material to a suitable waste container.

7 Handling and storage

Advice on safe handling :
Keep tightly closed.
Protect from contamination.
Avoid contact with skin, eyes and clothing.
Wear suitable protective equipment.
Conditions for safe storage :
Normal precautions common to good safety practice should be followed in storage.

8 Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), solvent refined heavy paraffinic	64741-88-4	TWA (Mist)	0.2 mg/m3	CA BC OEL
		TWA	0.2 mg/m3	CA BC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEL (Mist)	10 mg/m3	CA QC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
calcium carbonate	471-34-1	TWAEV (total dust)	10 mg/m3	CA QC OEL
		TWA	10 mg/m3 (Calcium)	CA AB OEL
		TWA	10 mg/m3 (Calcium carbonate)	CA AB OEL

9 Physical and chemical properties

Appearance : solid
Odour : No data available
Odour Threshold : No data available
pH : Not applicable
Melting point/range : No data available
Boiling point/boiling range : Not applicable
Flash point : > 180 °C
Evaporation rate : Not applicable
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : Not applicable
Relative vapour density : Not applicable
Relative density : No data available
Solubility(ies)
Water solubility : No data available
Solubility in other solvents : No data available
Partition coefficient: noctanol/water : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity
Viscosity, kinematic : Not applicable

10 Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : No decomposition if stored and applied as directed.
Conditions to avoid : Contamination
Incompatible materials : Strong oxidizing agents
Hazardous decomposition products : Sulphur oxides, Carbon oxides

11 Toxicological Information

Acute toxicity
Product:
Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method
Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method
Components:
calcium carbonate:
Acute oral toxicity : LD50 (Rat): 6,450 mg/kg
calcium dodecylbenzenesulphonate:
Acute dermal toxicity : LD50 (Rabbit): > 4,199 mg/kg
Remarks: Information given is based on data obtained from similar substances.
bis(nonylphenyl)amine:
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
LD50 (Rat): > 16,000 mg/kg
Sulfonic acids, petroleum, calcium salts:
Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Acute dermal toxicity : LD50 (Rabbit, male and female): > 4,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Skin corrosion/irritation
Components:
calcium carbonate:
Species: Rabbit
Result: No skin irritation
calcium dodecylbenzenesulphonate:
Species: Rabbit
Exposure time: 4 h
Result: Skin irritation
Remarks: Information given is based on data obtained from similar substances.
bis(nonylphenyl)amine:
Species: Rabbit
Result: No skin irritation
Serious eye damage/eye irritation
Components:
calcium carbonate:
Species: Rabbit
Result: No eye irritation
calcium dodecylbenzenesulphonate:
Species: Rabbit
Result: Risk of serious damage to eyes.
Remarks: Information given is based on data obtained from similar substances.
bis(nonylphenyl)amine:
Species: Rabbit

Result: No eye irritation
Respiratory or skin sensitisation
Product:
Result: Does not cause skin sensitisation.
Remarks: Information given is based on data obtained from similar substances.
Assessment: Does not cause skin sensitisation.
Remarks: Information given is based on data obtained from similar substances.

12 Ecological information

Ecotoxicity
Components:
calcium dodecylbenzenesulphonate:
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 22 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 203
GLP: no
Remarks: Information given is based on data obtained from
similar substances.
Toxicity to daphnia and other
aquatic invertebrates
: EC50 (Daphnia magna (Water flea)): 2.5 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: no
Remarks: Information given is based on data obtained from
similar substances.
bis(nonylphenyl)amine:
Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): > 1,000
mg/l
Exposure time: 96 h
LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l
Exposure time: 96 h
LC50 (Pimephales promelas (fathead minnow)): > 10,000 mg/l
Exposure time: 96 h
Toxicity to daphnia and other
aquatic invertebrates
: LC50 (Crangon crangon (shrimp)): 14 - 28 mg/l
Exposure time: 96 h
LC50 (Crangon crangon (shrimp)): 18.9 - 39.2 mg/l
Exposure time: 96 h
LC50 (Crangon crangon (shrimp)): 463 - 631 mg/l
Exposure time: 96 h
Sulfonic acids, petroleum, calcium salts:
Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): >
10,000 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes
Toxicity to daphnia and other
aquatic invertebrates
: EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
Toxicity to algae : EbC50 (Green algae (Scenedesmus subspicatus)): > 100 mg/l
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: yes
ErC50 (Green algae (Scenedesmus subspicatus)): > 100 mg/l
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: yes

Persistence and degradability

Product:
Biodegradability : Remarks: No data available

Components:

calcium dodecylbenzenesulphonate:
Biodegradability : Concentration: 10 mg/l
Result: Readily biodegradable.
Testing period: 28 d
Kinetic:
28 d: 73 %
Remarks: Information given is based on data obtained from similar substances.

Sulfonic acids, petroleum, calcium salts:
Biodegradability : aerobic
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 8.6 %
Exposure time: 28 d
GLP: yes

Bioaccumulative potential

Product:
Bioaccumulation : Remarks: No data available

Components:

calcium dodecylbenzenesulphonate:
Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 104
Exposure time: 21 d
GLP: no

Mobility in soil

Product:
Mobility : Remarks: No data available

Other adverse effects

Product:
Additional ecological information
: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
This product has no known ecotoxicological effects.

13 Disposal considerations

Disposal methods

14 Transport information

International Regulations
UNRTDG
Not regulated as a dangerous good
IATA-DGR
Not regulated as a dangerous good
IMDG-Code
Not regulated as a dangerous good
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.
National Regulations
TDG
Not regulated as a dangerous good

15 Regulatory information

The components of this product are reported in the following inventories:
United States TSCA Inventory : On TSCA Inventory
Canadian Domestic Substances List (DSL) : All components of this product are on the Canadian DSL
Australia Inventory of Chemical Substances (AICS) : On the inventory, or in compliance with the inventory
New Zealand. Inventory of Chemical Substances : On the inventory, or in compliance with the inventory
Japan. ENCS - Existing and New Chemical Substances Inventory : Not in compliance with the inventory
9,10-Anthracenedione, 1,4-diamino-, N,N'-mixed 2-ethylhexyl and Me and pentyl derivs.
Korea. Korean Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory China. Inventory of Existing Chemical Substances
Substances in China (IECSC) : On the inventory, or in compliance with the inventory
Canadian lists
Canada. CEPA 1999 Significant New Activity (SNAc) List: No substances are subject to a Significant New Activity Notification.
Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient Disclosure List (Can. Gaz., Part II, Vol. 122, No. 2): WHMIS Ingredient Disclosure List IDL: No component is listed on the WHMIS ingredients disclosure list.
Canada. Canadian Environmental Protection Act (CEPA). National Pollutant Release Inventory (NPRI) (Can. Gaz. Part I, 135:12, 940):
diphenylamine
naphthalene
ethylbenzene

16 Other information

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International

Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT – Self Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer :
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, storage, transportation and release and is not considered a warranty or quality specification. The responsibility for the compliance with existing law and regulations lies with the receiver of the product.