



SAFETY DATA SHEET

1. Identification

Product identifier Biodegradable Hydraulic Oil 32
Product Code 301220
SDS number 6627
Other means of identification
Synonyms Old Product Code 56790; For Package Codes 301220XXXXXX
Product Code 301220

Recommended use of the chemical and restrictions on use

Recommended use Hydraulic Pumps
Restrictions on use Not available.

Details of manufacturer or importer

Manufacturer

Calumet Branded Products, LLC
GPO Darling Park Towers 2 201 Sussex St. Sydney AU NSW 2000 Australia
2780 Waterfront Pkwy E. Dr., Suite 200 Indianapolis, IN 46214
1 317 328 5660
CHEMTREC: 1800 069 100 (AUS)

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Not classified.
Health hazards Sensitization, skin Category 1
Environmental hazards Not classified.

Label elements, including precautionary statements

Hazard symbol(s) None.
Signal word None.
Hazard statement(s) The mixture does not meet the criteria for classification.

Precautionary statement(s)

Prevention Observe good industrial hygiene practices.
Response Wash hands after handling.
Storage Store away from incompatible materials.
Disposal Dispose of waste and residues in accordance with local authority requirements.

Other hazards which do not result in classification None known.

Supplemental information None.

3. Composition/information on ingredients

Mixture

| Identity of chemical ingredients | CAS number and other unique identifiers | Concentration of ingredients |
|--|---|------------------------------|
| Butylhydroxytoluene | 128-37-0 | 1 - < 3 |
| Other components below reportable levels | | 90 - 100 |

4. First-aid measures

Description of necessary first aid measures

| | |
|---|--|
| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Skin contact | Wash off with soap and water. Get medical attention if irritation develops and persists. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Personal protection for first-aid responders | Not available. |
| Symptoms caused by exposure | Irritation of eyes and mucous membranes. Skin irritation. |
| Medical attention and special treatment | Treat symptomatically. |

5. Fire-fighting measures

Extinguishing media

| | |
|---|---|
| Suitable extinguishing media | Water fog. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for fire fighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Wear suitable protective equipment. |
| Hazchem code | None. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| | |
|------------------------------------|--|
| For non-emergency personnel | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS. |
| For emergency responders | Not available. |

Environmental precautions

| | |
|--|---|
| Methods and materials for containment and cleaning up | <p>This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p> |
|--|---|

7. Handling and storage

| | |
|---|---|
| Precautions for safe handling | Avoid prolonged exposure. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |

8. Exposure controls and personal protection

| | |
|---------------------------|--|
| Control parameters | Follow standard monitoring procedures. |
|---------------------------|--|

Occupational exposure limits

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

| Components | Type | Value |
|------------------------------------|------|----------------------|
| Butylhydroxytoluene (CAS 128-37-0) | TWA | 10 mg/m ³ |

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

| Components | Type | Value |
|------------------------------------|------|----------------------|
| Butylhydroxytoluene (CAS 128-37-0) | TWA | 10 mg/m ³ |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|------------------------------------|------|---------------------|-------------------------------|
| Butylhydroxytoluene (CAS 128-37-0) | TWA | 2 mg/m ³ | Inhalable fraction and vapor. |

UK. EH40 Workplace Exposure Limits (WELs)

| Components | Type | Value |
|------------------------------------|------|----------------------|
| Butylhydroxytoluene (CAS 128-37-0) | TWA | 10 mg/m ³ |

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

| Components | Type | Value | Form |
|------------------------------------|------|----------------------|--|
| Butylhydroxytoluene (CAS 128-37-0) | TWA | 10 mg/m ³ | Vapor and aerosol, inhalable fraction. |

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Liquid.

Color

Not available.

Odor

Not available.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling range

509 °F (265 °C) estimated

Flash point

388.4 °F (198.0 °C) Pensky-Martens Closed Cup

Evaporation rate

Not available.

| | |
|---|---------------------------|
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | 0.01 hPa estimated |
| Density | 917.00 kg/m ³ |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Negligible |
| Solubility (other) | Oil |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | 743 °F (395 °C) estimated |
| Decomposition temperature | Not available. |
| Viscosity | 34 cSt |
| Viscosity temperature | 104 °F (40 °C) ASTM D445 |
| Other physical and chemical parameters | |
| Explosive properties | Not explosive. |
| Flash point class | Combustible IIIB |
| Oxidizing properties | Not oxidizing. |
| Pour point | -5.8 °F (-21 °C) |
| Specific gravity | 0.92 |
| VOC | < 0.1 % |

10. Stability and reactivity

| | |
|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on possible routes of exposure

| | |
|-------------------------------------|---|
| Inhalation | Prolonged inhalation may be harmful. |
| Skin contact | No adverse effects due to skin contact are expected. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | Expected to be a low ingestion hazard. |
| Symptoms related to exposure | Irritation of eyes and mucous membranes. Skin irritation. |

| Product | Species | Test Results |
|---------|---------|--------------|
|---------|---------|--------------|

Biodegradable Hydraulic Oil 32

Acute

Oral

| | | |
|------|-----|-----------------------|
| LD50 | Rat | 72802 mg/kg estimated |
|------|-----|-----------------------|

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

Butylhydroxytoluene (CAS 128-37-0)

Acute

Oral

| | | |
|------|------------|-------------|
| LD50 | Guinea pig | 10700 mg/kg |
| | Mouse | 1040 mg/kg |
| | Rat | 890 mg/kg |

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible.

Serious eye damage/irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Due to lack of data the classification is not possible.

ACGIH Carcinogens

| | |
|---|--|
| Butylhydroxytoluene BUTYLATED HYDROXYTOLUENE (BHT), INHALABLE FRACTION AND VAPOR (CAS 128-37-0) | A4 Not classifiable as a human carcinogen. |
|---|--|

IARC Monographs. Overall Evaluation of Carcinogenicity

| | |
|---|---|
| BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0) | 3 Not classifiable as to carcinogenicity to humans. |
|---|---|

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Due to lack of data the classification is not possible.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

Other information This product has no known adverse effect on human health.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

Butylhydroxytoluene (CAS 128-37-0)

Aquatic

| | | | |
|-----------|------|----------------------------|---------------------|
| Crustacea | EC50 | Water flea (Daphnia pulex) | 1.44 mg/l, 48 hours |
|-----------|------|----------------------------|---------------------|

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil This product is miscible in water.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

| | |
|-------------------------------|--|
| Disposal methods | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. |
| Residual waste | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

14. Transport information

ADG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

Safety, health and environmental regulations

National regulations This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

International regulations

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | Yes |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date 11-20-2015

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