

1. Identification

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| Product identifier | Gunk Engine Cleaner - Foamy | | |
| Other means of identification | | | |
| SDS number | FEB1 | | |
| Part No. | FEB1 | | |
| Tariff code | 3402.20.5100 | | |
| Recommended use | Engine Cleaner | | |
| Recommended restrictions | None known. | | |
| Manufacturer/Importer/Supplier/Distributor information | | | |
| Manufacturer | | | |
| Company name | RSC Chemical Solutions | | |
| Address | 600 Radiator Road Indian Trail, NC 28079 United States | | |
| Telephone | Customer Service: | (704) 821-7643 | |
| | Technical: | (704) 684-1811 | |
| Website | www.rscbrands.com | | |
| E-mail | Not available. | | |
| Emergency phone number | Emergency Telephone: | (303) 623-5716 | |
| | Emergency Contact: | RMPDC (877-740-5015) | |

2. Hazard(s) identification

| | | |
|------------------------------|--|-------------|
| Physical hazards | Flammable aerosols | Category 2 |
| Health hazards | Germ cell mutagenicity | Category 1B |
| | Carcinogenicity | Category 1A |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard | Category 3 |
| | Hazardous to the aquatic environment, long-term hazard | Category 3 |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



| | | |
|--|---|--|
| Signal word | Danger | |
| Hazard statement | Flammable aerosol. May cause genetic defects. May cause cancer. Harmful to aquatic life. Harmful to aquatic life with long lasting effects. | |
| Precautionary statement | | |
| Prevention | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. | |
| Response | If exposed or concerned: Get medical advice/attention. | |
| Storage | Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. | |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. | |
| Hazard(s) not otherwise classified (HNOC) | None known. | |

Supplemental information

16.4% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 15.46% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients**Mixtures**

| Chemical name | Common name and synonyms | CAS number | % |
|---|--------------------------|------------|-----------|
| Petroleum Gases, Liquefied, Sweetened; Petroleum Gas; | | 68476-86-8 | 5 - < 10 |
| Kerosine (petroleum) | | 8008-20-6 | 1 - < 3 |
| Nonylphenolethoxylate | | 9016-45-9 | 1 - < 3 |
| Petroleum naphtha | | 64742-94-5 | 1 - < 3 |
| NAPHTHALENE | | 91-20-3 | < 0.2 |
| Other components below reportable levels | | | 80 - < 90 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

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|---|---|
| Inhalation | If symptoms develop move victim to fresh air. Get medical attention if symptoms 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 | In the unlikely event of swallowing contact a physician or poison control center. |
| Most important symptoms/effects, acute and delayed | Direct contact with eyes may cause temporary irritation. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. |
| General information | IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |
| Fire fighting equipment/instructions | Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes. |
| General fire hazards | Flammable aerosol. |

6. Accidental release measures

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|--|---|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
|--|---|

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Environmental precautions

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage**Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection**Occupational exposure limits****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value |
|------------------------------------|------|--------------------------------|
| NAPHTHALENE (CAS 91-20-3) | PEL | 50 mg/m3 |
| Petroleum naphtha (CAS 64742-94-5) | PEL | 10 ppm 400 mg/m3 100 ppm |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|--------------------------------------|------|-----------|--------------|
| Kerosine (petroleum) (CAS 8008-20-6) | TWA | 200 mg/m3 | Non-aerosol. |
| NAPHTHALENE (CAS 91-20-3) | TWA | 10 ppm | |
| Petroleum naphtha (CAS 64742-94-5) | TWA | 200 mg/m3 | Non-aerosol. |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|--------------------------------------|------|------------------------------|
| Kerosine (petroleum) (CAS 8008-20-6) | TWA | 100 mg/m3 |
| NAPHTHALENE (CAS 91-20-3) | STEL | 75 mg/m3 |
| | TWA | 15 ppm 50 mg/m3 10 ppm |

Biological limit values

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

Exposure guidelines**US ACGIH Threshold Limit Values: Skin designation**

| | |
|--------------------------------------|-----------------------------------|
| Kerosine (petroleum) (CAS 8008-20-6) | Can be absorbed through the skin. |
| NAPHTHALENE (CAS 91-20-3) | Can be absorbed through the skin. |

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, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

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

Other Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using do not smoke. 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 Liquid. Hazy

Physical state Liquid.

Form Aerosol.

Color Cream

Odor Sweet. Aromatic.

Odor threshold Not available.

pH 9 - 10

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point > 201.0 °F (> 93.9 °C) Tag 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 0.00001 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Density 8.17 lbs/gal

Explosive properties Not explosive.

Flame extension 0 in

Flammability (flash back) No

| | |
|--------------------------------------|----------------------------|
| Flammability class | Combustible IIIB estimated |
| Heat of combustion (NFPA 30B) | 2.36 kJ/g estimated |
| Oxidizing properties | Not oxidizing. |
| Percent volatile | 82.26 % estimated |
| Specific gravity | 0.85 |
| VOC (Weight %) | 1.83 % estimated |

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 | Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely 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 the physical, chemical and toxicological characteristics | Direct contact with eyes may cause temporary irritation. |
|---|--|

Information on toxicological effects

Acute toxicity

| Components | Species | Test Results |
|------------------------------------|------------|------------------|
| NAPHTHALENE (CAS 91-20-3) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | > 2 g/kg |
| | Rat | > 20 g/kg |
| Oral | | |
| LD50 | Guinea pig | 1200 mg/kg |
| | Rat | 490 mg/kg |
| Petroleum naphtha (CAS 64742-94-5) | | |
| <u>Acute</u> | | |
| Inhalation | | |
| LC50 | Rat | 61 mg/l, 4 Hours |
| Oral | | |
| LD50 | Rat | > 25 ml/kg |

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

| | |
|--|---|
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. |
| Serious eye damage/eye 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 | May cause genetic defects. |

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

NAPHTHALENE (CAS 91-20-3) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

NAPHTHALENE (CAS 91-20-3) Reasonably Anticipated to be a Human Carcinogen.

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 Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

| Components | | Species | Test Results |
|---------------------------------------|------|--|----------------------------|
| NAPHTHALENE (CAS 91-20-3) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1.09 - 3.4 mg/l, 48 hours |
| Fish | LC50 | Pink salmon (Oncorhynchus gorbuscha) | 1.11 - 1.68 mg/l, 96 hours |
| Nonylphenolethoxylate (CAS 9016-45-9) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 12.2 mg/l, 48 hours |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 1 - 1.8 mg/l, 96 hours |
| Petroleum naphtha (CAS 64742-94-5) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia pulex) | 2.7 - 5.1 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout, donaldson trout (Oncorhynchus mykiss) | 8.8 mg/l, 96 hours |
| | | | 8.8 mg/l, 96 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

Partition coefficient n-octanol / water (log Kow)

NAPHTHALENE 3.3

Mobility in soil No data available.

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 instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products 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. Do not re-use empty containers.

14. Transport information**DOT**

| | |
|------------------------------|---|
| UN number | Not available. |
| UN proper shipping name | Consumer commodity |
| Transport hazard class(es) | |
| Class | ORM-D |
| Subsidiary risk | - |
| Label(s) | None |
| Packing group | Not applicable. |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Packaging exceptions | 156, 306 |
| Packaging non bulk | 156, 306 |
| Packaging bulk | None |

IATA

| | |
|------------------------------|---|
| UN number | ID8000 |
| UN proper shipping name | Consumer commodity |
| Transport hazard class(es) | |
| Class | 9 |
| Subsidiary risk | - |
| Packing group | Not applicable. |
| Environmental hazards | No. |
| ERG Code | 9L |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Other information | |
| Passenger and cargo aircraft | Allowed. |
| Cargo aircraft only | Allowed. |

IMDG

| | |
|------------------------------|---|
| UN number | UN1950 |
| UN proper shipping name | Aerosols |
| Transport hazard class(es) | |
| Class | 2 |
| Subsidiary risk | - |
| Packing group | Not applicable. |
| Environmental hazards | |
| Marine pollutant | No. |
| EmS | F-D, S-U |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

IATA



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

TSCA Chemical Action Plans, Chemicals of Concern

Nonylphenolethoxylate (CAS 9016-45-9)

Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan

CERCLA Hazardous Substance List (40 CFR 302.4)

NAPHTHALENE (CAS 91-20-3)

Listed.

Nonylphenolethoxylate (CAS 9016-45-9)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|-----------------------|------------|----------|
| Nonylphenolethoxylate | 9016-45-9 | 1 - < 3 |
| NAPHTHALENE | 91-20-3 | < 0.2 |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

NAPHTHALENE (CAS 91-20-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Kerosine (petroleum) (CAS 8008-20-6)

NAPHTHALENE (CAS 91-20-3)

Nonylphenolethoxylate (CAS 9016-45-9)

Petroleum Gases, Liquefied, Sweetened; Petroleum Gas; (CAS 68476-86-8)

Petroleum naphtha (CAS 64742-94-5)

US. Massachusetts RTK - Substance List

Kerosine (petroleum) (CAS 8008-20-6)
NAPHTHALENE (CAS 91-20-3)

US. New Jersey Worker and Community Right-to-Know Act

Kerosine (petroleum) (CAS 8008-20-6)
NAPHTHALENE (CAS 91-20-3)
Nonylphenolethoxylate (CAS 9016-45-9)
Petroleum naphtha (CAS 64742-94-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Kerosine (petroleum) (CAS 8008-20-6)
NAPHTHALENE (CAS 91-20-3)
Nonylphenolethoxylate (CAS 9016-45-9)

US. Rhode Island RTK

NAPHTHALENE (CAS 91-20-3)
Nonylphenolethoxylate (CAS 9016-45-9)

US. California Proposition 65

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

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

| | |
|-------------------------------|------------------------|
| DIETHANOLAMINE (CAS 111-42-2) | Listed: June 22, 2012 |
| NAPHTHALENE (CAS 91-20-3) | Listed: April 19, 2002 |

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 | No |
| 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, including date of preparation or last revision

| | |
|------------|--|
| Issue date | 05-29-2015 |
| Version # | 01 |
| 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 a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. |