

Safety Data Sheet

HHS PLUS

Version 4.0

Revision Date 08/18/2014

Print Date 08/20/2014

SECTION 1. IDENTIFICATION

Commercial Product Name : HHS PLUS
Product number : 0893 106 026
SDS-Identcode : 10046245
Product Use Description : Anti-friction agent and lubricant
Company : Wurth USA Inc.
93 Grant St.
07446 Ramsey, NJ
USA
Telephone : +1 201 825 27 10
Telefax : +1 201 825 16 43
Responsible/issuing person : prodsafe@wuerth.com
Emergency telephone number : +1 800 255 3924

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable aerosols : Category 1
Eye irritation : Category 2A
Reproductive toxicity : Category 2
Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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H361 Suspected of damaging fertility or the unborn child.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection/ face protection.
P281 Use personal protective equipment as required.

Response:
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent- Weight percent
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baseoil - unspecified	64742-57-0	>= 20 - < 30
acetone	67-64-1	>= 20 - < 30
isobutane	75-28-5	>= 10 - < 20
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	>= 1 - < 5
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	>= 1 - < 5
propane	74-98-6	>= 1 - < 5
Carbon dioxide	124-38-9	>= 1 - < 5
butane	106-97-8	>= 0.1 - < 1
n-hexane	110-54-3	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

- General advice : If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- Inhalation : If breathed in, move person into fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician. Wash off with polyethylene glycol and afterwards with plenty of water.
- Eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

Notes to physician

- Treatment : Treat symptomatically and supportively.

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SECTION 5. FIREFIGHTING MEASURES

- Form : aerosol
- Flammability : Extremely flammable aerosol.
- Ignition temperature : 200 °C (392 °F)
- Suitable extinguishing media : Carbon dioxide (CO₂)
Foam
Dry powder
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Exposure to decomposition products may be a hazard to health.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
- Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.
Collect contaminated fire extinguishing water separately.
This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Refer to protective measures listed in sections 7 and 8.
Use personal protective equipment.
Remove all sources of ignition.
Avoid contact with skin and eyes.
Ensure adequate ventilation, especially in confined areas.
Contaminated surfaces will be extremely slippery.
Immediately evacuate personnel to safe areas.
Avoid inhalation of vapour or mist.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid release to the environment. Refer to special instructions/ Safety data sheets.
- Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.
Clean contaminated surface thoroughly.

CERCLA Hazardous substances and corresponding RQs:

67-64-1	5,000 lbs <i>final RQ</i>
110-54-3	5,000 lbs <i>final RQ</i>

SECTION 7. HANDLING AND STORAGE**Handling**

- Handling : For personal protection see section 8.
Limit the stocks at work place.
Use only in well-ventilated areas.
Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.
Do not spray on a naked flame or any incandescent

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material.

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

Take precautionary measures against static discharges. Do not carry cloths that have come into contact with the product in your clothing.

Advice on protection against fire and explosion : Normal measures for preventive fire protection. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition. Do not smoke. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard.

Dust explosion class : Not applicable

Storage

Requirements for storage areas and containers : Store in original container. BEWARE: Aerosol is pressurized. Keep away from heat. Keep away from direct sunlight. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep containers tightly closed in a cool, well-ventilated place. Please observe the storage instructions for aerosols!

Advice on common storage : Incompatible with oxidizing agents. Keep away from food, drink and animal feedingstuffs. Do not store together with oxidizing and self-igniting products.

Storage temperature : $\geq 10\text{ }^{\circ}\text{C}$ ($\geq 50\text{ }^{\circ}\text{F}$)

Other data : No decomposition if stored and applied as directed.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
baseoil - unspecified	64742-57-0	ACGIH	TWA	5 mg/m ³	2013-03-01
		NIOSH REL	TWA	5 mg/m ³	2013-10-08
		NIOSH REL	ST	10 mg/m ³	2013-10-08
		OSHA Z-1	TWA	5 mg/m ³	2011-07-01
		OSHA P0	TWA	5 mg/m ³	1989-01-19
acetone	67-64-1	ACGIH	TWA	500 ppm	2013-03-01
		ACGIH	STEL	750 ppm	2013-03-01
		OSHA Z-1	TWA	1,000 ppm 2,400 mg/m ³	1997-08-04
		NIOSH REL	TWA	250 ppm 590 mg/m ³	2013-10-08
		OSHA P0	TWA	750 ppm 1,800 mg/m ³	1989-01-19
		OSHA P0	STEL	1,000 ppm 2,400 mg/m ³	1989-01-19
		NIOSH REL	TWA	800 ppm 1,900 mg/m ³	2013-10-08
isobutane	75-28-5	ACGIH	STEL	1,000 ppm	2013-03-01
		OSHA Z-1	TWA	500 ppm 2,000 mg/m ³	2007-01-01
Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	OSHA Z-1	TWA	500 ppm 2,000 mg/m ³	2007-01-01
		OSHA Z-1	TWA	500 ppm 2,000 mg/m ³	2007-01-01
propane	74-98-6	OSHA Z-1	TWA	1,000 ppm 1,800 mg/m ³	1997-08-04
		NIOSH REL	TWA	1,000 ppm 1,800 mg/m ³	2013-10-08
		OSHA P0	TWA	1,000 ppm 1,800 mg/m ³	1989-01-19
Carbon dioxide	124-38-9	ACGIH	TWA	5,000 ppm	2007-01-01
		ACGIH	STEL	30,000 ppm	2007-01-01
		OSHA Z-1	TWA	5,000 ppm 9,000 mg/m ³	1997-08-04
		NIOSH REL	TWA	5,000 ppm 9,000 mg/m ³	2013-10-08
		NIOSH REL	ST	30,000 ppm 54,000 mg/m ³	2013-10-08
		OSHA P0	TWA	10,000 ppm 18,000 mg/m ³	1989-01-19
		OSHA P0	STEL	30,000 ppm 54,000 mg/m ³	1989-01-19
baseoil - unspecified	64741-89-5	ACGIH	TWA	5 mg/m ³	2013-03-01
		NIOSH REL	TWA	5 mg/m ³	2013-10-08
		NIOSH REL	ST	10 mg/m ³	2013-10-08
		OSHA Z-1	TWA	5 mg/m ³	2011-07-01

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		OSHA P0	TWA	5 mg/m3	1989-01-19
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Engineering measures : Provide sufficient air exchange and/or exhaust in work rooms.

Eye protection : Tightly fitting safety goggles

Hand protection
Glove material : Nitrile rubber

Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Skin and body protection : Flame retardant antistatic protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Product contains low-boiling liquids. Respiratory protective equipment must be air supplied respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Do not inhale aerosol.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : aerosol
Physical state : aerosol

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Colour	: brown
Odour	: solvent-like
Odour Threshold	: No data available
Flash point	: No data available
Ignition temperature	: 200 °C (392 °F)
Thermal decomposition	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Flammability	: Extremely flammable aerosol.
Molecular weight	: No data available
pH	: Not applicable
Boiling point/boiling range	: 60 °C (140 °F)
Vapour pressure	: No data available
Relative vapour density	: No data available
Evaporation rate	: No data available
Density	: 0.85 g/cm ³ at 20 °C (68 °F) Active ingredient
Relative density	: No data available
Bulk density	: No data available
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Volatile organic compounds (VOC) content	: 23.33 % 198.3 g/l

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Oxidizing agents Avoid contact with other chemicals.
Hazardous decomposition	: Build-up of dangerous/toxic fumes possible in cases of

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products fire/high temperature.

Hazardous reactions : Note: No decomposition if stored and applied as directed.

Vapours may form explosive mixtures with air. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity : No data is available on the product itself.
Reproductive toxicity : No data is available on the product itself.
Teratogenicity : No data is available on the product itself.
Further information : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Vapours may cause drowsiness and dizziness.

Component:

baseoil - unspecified

64742-57-0

Acute oral toxicity: LD50 Rat
Dose: > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 Rabbit
Dose: > 2,000 mg/kg
Method: OECD Test Guideline 402

Skin irritation: Rabbit
Result: No skin irritation

Eye irritation: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Carcinogenicity: Animal testing did not show any carcinogenic effects.

Mutagenicity: In vivo tests did not show mutagenic effects

Reproductive toxicity: No toxicity to reproduction

acetone

67-64-1

Acute oral toxicity: LD50 Rat
Dose: 5,800 mg/kg

Acute dermal toxicity: LD50 Rabbit
Dose: > 7,426 mg/kg

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		<p><u>Acute inhalation toxicity:</u> LC50 Rat Dose: 76 mg/l/Exposure time: 4 h</p> <p><u>Skin irritation:</u> Result: Repeated exposure may cause skin dryness or cracking.</p> <p><u>Skin irritation:</u> Guinea pig Result: No skin irritation</p> <p><u>Eye irritation:</u> Rabbit Result: Irritation to eyes, reversing after 7 to 21 days.</p> <p><u>Carcinogenicity:</u> Animal testing did not show any carcinogenic effects. <u>Mutagenicity:</u> Tests on bacterial or mammalian cell cultures did not show mutagenic effects. <u>Reproductive toxicity:</u> No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.</p>
isobutane	75-28-5	<p><u>Acute inhalation toxicity:</u> LC50 Mouse Dose: 1,237 mg/l</p>
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	<p><u>Acute oral toxicity:</u> LD50 Rat Dose: > 5,840 mg/kg</p> <p><u>Acute dermal toxicity:</u> LD50 Rabbit Dose: > 2,000 mg/kg</p> <p><u>Acute inhalation toxicity:</u> LC50 Rat Dose: > 25.2 mg/l/Exposure time: 4 h</p> <p><u>Skin irritation:</u> Rabbit Result: Skin irritation</p> <p><u>Eye irritation:</u> Rabbit Result: No eye irritation</p> <p><u>Carcinogenicity:</u> Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P) <u>Mutagenicity:</u> Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P) <u>Reproductive toxicity:</u> No toxicity to reproduction</p>
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	<p><u>Acute oral toxicity:</u> LD50 Rat Dose: > 5,840 mg/kg</p> <p><u>Acute dermal toxicity:</u> LD50 Rabbit Dose: > 2,000 mg/kg</p> <p><u>Acute inhalation toxicity:</u> LC50 Rat Dose: > 23.3 mg/l/Exposure time: 4 h</p>

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		<u>Skin irritation:</u> Rabbit Result: Skin irritation
		<u>Eye irritation:</u> Rabbit Result: No eye irritation
		<u>Carcinogenicity:</u> Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)
		<u>Mutagenicity:</u> Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)
		<u>Reproductive toxicity:</u> No toxicity to reproduction
propane	74-98-6	<u>Acute inhalation toxicity:</u> LC50 Mouse Dose: 1,237 mg/l
Carbon dioxide	124-38-9	<u>Acute inhalation toxicity:</u> LC50 Rat Dose: 58750 ppm Exposure time: 4 h
n-hexane	110-54-3	<u>Acute oral toxicity:</u> LD50 Rat Dose: ca. 16 g/kg Method: OECD Test Guideline 401 <u>Acute dermal toxicity:</u> LD50 Rabbit Dose: > 3,350 mg/kg Method: OECD Test Guideline 402 <u>Acute inhalation toxicity:</u> LC50 Dose: 259.354 mg/l 73860 ppm Exposure time: 4 h Method: OECD Test Guideline 403 <u>Skin irritation:</u> Rabbit Result: irritating Method: OECD Test Guideline 404 <u>Eye irritation:</u> Rabbit Result: No eye irritation Method: OECD Test Guideline 405 <u>Reproductive toxicity:</u> Suspected human reproductive toxicant Suspected of damaging fertility.

Carcinogenicity:**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

SECTION 12. ECOLOGICAL INFORMATION

Volatile organic compounds (VOC) content : 23.33 %

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

Component:

baseoil - unspecified

64742-57-0

Toxicity to fish:

LC50

Species: Pimephales promelas (fathead minnow)

Dose: > 100 mg/l

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: > 10,000 mg/l

Exposure time: 48 h

Toxicity to algae:

Growth inhibition NOEC

Species: Pseudokirchneriella subcapitata (microalgae)

Dose: >= 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to bacteria:

NOEC

Species: Photobacterium phosphoreum

Dose: > 1.93 mg/l

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		Exposure time: 10 min
acetone	67-64-1	<p><u>Toxicity to fish:</u> LC50 Species: Pimephales promelas (fathead minnow) Dose: 6,210 - 8,120 mg/l Exposure time: 96 h</p> <p><u>Acute and prolonged toxicity for aquatic invertebrates:</u> EC50 Species: Daphnia pulex (Water flea) Dose: 8,800 mg/l Exposure time: 48 h</p> <p><u>Toxicity to algae:</u> NOEC Species: Microcystis aeruginosa Dose: 530 mg/l Exposure time: 8 d</p> <p><u>Toxicity to bacteria:</u> Respiration inhibition of activated sludge EC50 Species: Dose: 61.15 mg/l Exposure time: 30 min Method: ISO 8192</p>
isobutane	75-28-5	<p><u>Toxicity to fish:</u> LC50 Species: Fish Dose: 147.54 mg/l Exposure time: 96 h</p> <p><u>Acute and prolonged toxicity for aquatic invertebrates:</u> LC50 Species: Daphnia (water flea) Dose: 46.6 mg/l Exposure time: 48 h</p>
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	<p><u>Toxicity to fish:</u> LC50 Species: Oncorhynchus mykiss (rainbow trout) Dose: 11.4 mg/l Exposure time: 96 h Information given is based on data obtained from similar substances.</p> <p><u>Acute and prolonged toxicity for aquatic invertebrates:</u> EC50 Species: Daphnia magna (Water flea) Dose: 3 mg/l Exposure time: 48 h Information given is based on data obtained from similar substances.</p>

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		<p><u>Toxicity to algae:</u> EC50 Species: Pseudokirchneriella subcapitata (green algae) Dose: 10 - 30 mg/l Exposure time: 72 h</p> <p><u>Toxicity to algae:</u> NOEC Species: Pseudokirchneriella subcapitata (green algae) Dose: 10 mg/l Exposure time: 72 h</p>
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	<p><u>Toxicity to fish:</u> LC50 Species: Oncorhynchus mykiss (rainbow trout) Dose: > 13.4 mg/l Exposure time: 96 h Information given is based on data obtained from similar substances.</p> <p><u>Acute and prolonged toxicity for aquatic invertebrates:</u> EC50 Species: Daphnia magna (Water flea) Dose: 3 mg/l Exposure time: 48 h Information given is based on data obtained from similar substances.</p> <p><u>Toxicity to algae:</u> EC50 Species: Pseudokirchneriella subcapitata (green algae) Dose: 10 - 30 mg/l Exposure time: 72 h</p> <p><u>Toxicity to algae:</u> NOEC Species: Pseudokirchneriella subcapitata (green algae) Dose: 10 mg/l Exposure time: 72 h</p>
propane	74-98-6	<p><u>Toxicity to fish:</u> LC50 Species: Fish Dose: 147.54 mg/l Exposure time: 96 h</p> <p><u>Acute and prolonged toxicity for aquatic invertebrates:</u> LC50 Species: Daphnia magna (Water flea) Dose: 69.43 mg/l Exposure time: 48 h</p>
butane	106-97-8	<p><u>Toxicity to fish:</u> LC50 Species: Fish</p>

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n-hexane

110-54-3

Dose: 24.11 mg/l
Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

LC50

Species: Daphnia magna (Water flea)

Dose: 14.22 mg/l

Exposure time: 48 h

Toxicity to algae:

EC50

Species: Selenastrum capricornutum (green algae)

Dose: 7.71 mg/l

Exposure time: 96 h

Toxicity to fish:

LC50

Species: Oryzias latipes (Orange-red killifish)

Dose: > 1,000 µg/l

Exposure time: 48 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 30 mg/l

Exposure time: 48 h

Toxicity to algae:

ErC50

Species: Pseudokirchneriella subcapitata (algae)

Dose: 9.285 mg/l

Exposure time: 72 h

Calculation

Toxicity to algae:

Growth inhibition NOEC

Species: Pseudokirchneriella subcapitata (algae)

Dose: 2.077 mg/l

Exposure time: 72 h

Method:

Calculation

Toxicity to bacteria:

EC50

Species: Bacteria

Dose: 48.396 mg/l

Exposure time: 48 h

Calculation

Toxicity to bacteria:

NOEC

Species: Bacteria

Dose: 10.82 mg/l

Exposure time: 48 h

Calculation

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SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.
Do not dispose of waste into sewer.
This material and its container must be disposed of as hazardous waste.

SECTION 14. TRANSPORT INFORMATION**DOT 49 CFR**

ID No : UN 1950
Proper shipping name : Aerosols
Class : 2.1
Labels : 2.1
Emergency Response : 126
Guidebook Number

TDGR

ID No : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Labels : 2.1

ICAO/IATA-DGR

ID No : UN 1950
Proper shipping name : Aerosols, flammable
Class : 2.1
ICAO-Labels : 2.1
Packing instruction (cargo aircraft) : 203
Packing instruction : 203
(passenger aircraft)
Packing instruction : Y203
(passenger aircraft)
Environmentally hazardous : no

IMDG-Code

ID No : UN 1950
Description of the goods : AEROSOLS

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Class : 2.1
IMDG-Labels : 2.1
EmS Number 1 : F-D
EmS Number 2 : S-U

Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Sudden Release of Pressure Hazard
Fire Hazard
Acute Health Hazard
Chronic Health Hazard

CERCLA Reportable Quantity : Calculated RQ exceeds reasonably attainable upper limit.

EPCRA_313 US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

EPCRA_302 US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

PENN RTK US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

<u>Components</u>	<u>CAS-No.</u>
baseoil - unspecified	64742-57-0
acetone	67-64-1
Lubrizol 7077	
isobutane	75-28-5
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0
propane	74-98-6
Carbon dioxide	124-38-9
cyclohexane	110-82-7

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MASS RTK

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

<u>Components</u>	<u>CAS-No.</u>
baseoil - unspecified	64742-57-0
acetone	67-64-1
isobutane	75-28-5
propane	74-98-6
Carbon dioxide	124-38-9
baseoil - unspecified	64741-89-5

NJ RTK

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

<u>Components</u>	<u>CAS-No.</u>
baseoil - unspecified	64742-57-0
acetone	67-64-1
Lubrizol 7077	
isobutane	75-28-5
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0
propane	74-98-6
Carbon dioxide	124-38-9

California Prop. 65

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

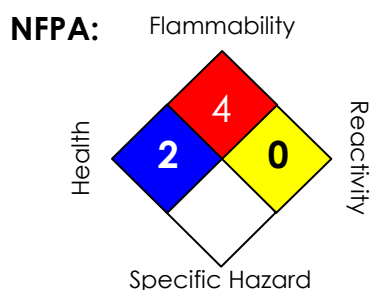
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SECTION 16. OTHER INFORMATION**Further information****HMIS III:**

HEALTH	2*
FLAMMABILITY	4
PHYSICAL	0

0 = Insignificant, 1 = Slight,
2 = Moderate, 3 = High, 4 = Extreme

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.

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