

Safety Data Sheet

ENEOS Trading Safety data sheet according
Preparation / Revision Date: 01 Jun 2024
Product: ENGINE FLUSH

JQI-SDS-5026-0-GHS

1. IDENTIFICATION

Product Name	ENEOS ENGINE FLUSH
Recommended Use	
Product Categories	The additive agent for internal washing of 4 cycle engine only
Principal Use	Internal engine cleaning oil
Manufacturer	
Company Name	ENEOS Trading Company Limited
Address	1-3-13,Nihonbashi,choo-ku,Tokyo,103-0027,Japan
Telephone Number	+81(3)6262-2666
Department In Charge	Product Planning Department
EMERGENCY TELEPHONE NUMBER	+81(3)6262-2666

2. HAZARDS IDENTIFICATION

GHS classification

PHYSICAL HAZARDS

Explosives	Not applicable
Flammable gases	Not applicable
Aerosols	Not applicable
Oxidizing gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not classified
Flammable solids	Not applicable
Self-reactive substances and mixtures	Classification not possible
Pyrophoric liquids	Not classified
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Classification not possible
Substance and mixtures which, in contact with water, emits flammable liquids	Classification not possible
Oxidizing liquids	Classification not possible
Oxidizing solids	Not applicable
Organic peroxides	Not applicable
Corrosive to metals	Classification not possible
Desensitized explosives	Classification not possible

HEALTH HAZARDS

Acute toxicity (Oral)	Category 5
Acute toxicity (Dermal)	Category 5
Acute toxicity (Inhalation: gas)	Not applicable
Acute toxicity (Inhalation: Vapour)	Classification not possible
Acute toxicity (Inhalation: Dust)	Not applicable
Acute toxicity (Inhalation: Mist)	Category 4
Skin corrosion / irritation	Category 3
Serious eye damage / eye irritation	Category 2B
Respiratory sensitization	Classification not possible
Skin sensitization	Not classified
Germ cell mutagenicity	Category 2
Carcinogenicity	Not classified

Safety Data Sheet

ENEOS Trading Safety data sheet according
Preparation / Revision Date: 01 Jun 2024
Product: ENGINE FLUSH

JQI-SDS-5026-0-GHS

Reproductive toxicity	Classification not possible
Specific target organ toxicity - Single exposure	Category 2(Lungs)
Specific target organ toxicity - Repeated exposure	Category 1(Lungs, Skin)
Aspiration hazard	Category 1

ENVIRONMENTAL HAZARDS

Hazardous to the aquatic environment—Short-Term(Acute) hazard	Classification not possible
Hazardous to the aquatic environment—Long-Term(Chronic)hazard	Classification not possible
Hazardous to the ozone layer	Classification not possible

Pictogram



Signal word

Danger

Hazard statement

H303 May be harmful if swallowed
H313 May be harmful in contact with skin
H332 Harmful if inhaled
H316 Causes mild skin irritation
H320 Causes eye irritation
H341 Suspected of causing genetic defects
H371 May cause damage to organs (Lungs)
H372 Causes damage to organs (Lungs, Skin) through prolonged or repeated exposure
H304 May be fatal if swallowed and enters airways

Precautionary statement

[Prevention]

P261 Avoid breathing mist.
P271 Use only outdoors or in a well-ventilated area.
P264 Wash hands thoroughly after handling.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing / eye protection / face protection.
P260 Do not breathe mist.
P270 Do not eat, drink or smoke when using this product.

[Response]

P301+P312 IF SWALLOWED: Call a POISON CENTER / doctor / physician if you feel unwell.
P302+P312 IF ON SKIN: Call a POISON CENTER/doctor if you feel unwell.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor/physician if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water more than 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice / attention.
P308 +H313 IF exposed or concerned: Get medical advice / attention.

Safety Data Sheet

ENEOS Trading Safety data sheet according
Preparation / Revision Date: 01 Jun 2024
Product: ENGINE FLUSH

JQI-SDS-5026-0-GHS

P308+P311 If exposed or concerned: Call a POISON CENTER / doctor.
P314 Get medical advice/attention if you feel unwell.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor / physician.
P331 Do NOT induce vomiting.

[Storage]

P405 Store locked up.
P102 Keep out of reach of children.

[Disposal]

P501 In the case of the disposal, please confirm local disposal regulation concerned by all means.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Composition ingredients

Chemical name	Wt%	Cas No.
Distillates (petroleum)	60~70	Confidential
Lubricant additive	30~40	Confidential

4. FIRST AID MEASURES

- In case of contact with eye : Confirm whether the contact lens is used or not. Take it off if used, and immediately rinse the eyes with a large amount of clean water promptly more than 15 minutes, and completely wash it to the back of eyelids.
Do not use eye ointment. If any abnormality is felt such as irritation, immediately consult a physician.
- In case of contact with skin : If this substance has contacted directly with skin, promptly wipe off the solution with paper or cloth. If this solution has adhered on the cloth, take off the cloth, and wash it with large amount of water and soap. Carefully wash the joints and the portion between fingers. If any abnormality is observed on the skin or there is an ache on the skin, immediately consult a physician.
- In case of inhalation : Stop the work immediately, move to the place of fresh air, keep the body warm and rest calmly. If breathing is difficult, loosen the necktie, belt, waist band other tightening string of cloth, and attempt the mouth-to-mouth resuscitation. If symptom is not restored, immediately consult a physician.
- In case of swallowing : Do not vomit forcibly, but immediately consult a physician. If the inside of mouth is spoiled, adequately rinse the mouth with water.

Information on the main symptom

Safety Data Sheet

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Preparation / Revision Date: 01 Jun 2024
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JQI-SDS-5026-0-GHS

- There is a possibility of diarrhea, and vomiting when drinking.
- There is a possibility of inflammation when entering eyes.
- There is a possibility of inflammation when it touches the skin.
- If the mist are inhaled, it is likely to become unpleasant.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Fogged reinforced liquid, foam, powder or carbon dioxide is effective.

Use the powder and carbon dioxide for an initial fire.

It is effective to intercept air by using the fire foam for a large-scale fire.

Unsuitable extinguishing media:

Pouring water might expand a fire and be dangerous.

Do not use water to extinguish fire.

Specific extinction method :

Do from the windward as much as possible when you work extinguishing fire.

Prohibit the entries other than parties concerned around the fire occurrence place.

Cut the combustion source to the place where the fire started.

Water the equipment of surroundings etc. and cool.

Protection of the person who extinguishes fire :

Battle the fires from windward side, and wear the protective equipment.

Wear the respiratory protective device because there is a possibility that a poisonous gas (carbon monoxide etc.) is generated by combustion or the high temperature.

6. ACCIDENTAL RELEASE MEASURES

- (1) Promptly remove fire source and combustible articles from the surrounding area of leakage.
- (2) Prepare proper fire extinguisher in preparation for the occurrence of fire.
- (3) In case where the leakage amount is small:
Absorb the solution with saw dust, soil and sand, waste cloth, paper, etc, and collect it to an empty container. After that, flush the surrounding area of leakage with adequate amount of water. Do not drain the cleaning water onto the ground or into drainage way.
- (4) In case where the leakage amount is large:
Prevent the outflow by sandbag, etc, and collect the solution by ladle into an empty container.
Wear protective gloves, protective respirator and protective apron during the collection activity.
- (5) When the leakage occurred inside the room, adequately ventilate by opening doors and windows.
- (6) Pay attention so that the solution may not be discharged to the river or general drainage way.
- (7) The wastes must be disposed of in accordance with the applicable laws and regulations.
- (8) Collect the solution using tools made of plastic so as to avoid the generation of spark.

7. HANDLING AND STORAGE

Precaution for handling

- (1) Avoid to use the fire source, spark or substance of high temperature at the surrounding area.

Safety Data Sheet

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Preparation / Revision Date: 01 Jun 2024
Product: ENGINE FLUSH

JQI-SDS-5026-0-GHS

- (2) Do not bring this solution near to the fire source.
- (3) Use this solution at well ventilated area, and tightly plug the container each time of use.
- (4) The hazardous substance in the amount equal to or larger than the specified quantity must be handled at the manufacturing site according to the standard specified in law.
- (5) Pay attention not to inhale the steam of sprayed mist.
- (6) Wear proper protective gears (protective gloves, protective respirator, protective apron, goggles, etc) which protect skin, eyes and head to prevent the exposure.
- (7) Adequately gargle, wash hands and face after handling this solution. Change the cloth if this solution adheres on the cloth.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Equipment measures :

- When a mist and steam are generated, sealing up of the outbreak source or the setting of the local exhaust is desirable.
- Establish the equipment for the eye washing and the body washing near the handling place.

Allowable concentration

Management density : There is no regulations.
Allowable concentration : ACGIH(2004) TWA 5mg/m³ (As mineral oil mist)

Protective gears:

Eye protector : Be careful so that this solution may not contact with the eyes
Wear protective goggles if necessary.
Respiration protector : The protector is not necessary in normal cases, but wear gas mask if necessary.
Skin protector : Wear oil resistant glove and protective apron as necessary.
Others : Wear the electrically conductive safety shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid
Color : Brown
Odour : Oil odor
Melting point / freezing point : No data available
: $\geq 250^{\circ}\text{C}$
Boiling point or initial boiling point and boiling range : No data available
Flammability : 1.0~7.0vol%
Lower and upper explosion limit / flammability limit : 136°C (276.8°F)
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
pH : No data available
Kinematic Viscosity : No data available
Solubility : Not dissolve
Partition coefficient:n-octanol /water (log value) : No data available
Vapour pressure : No data available
Density and/or relative density : 0.92 g/cm³ (15°C)
Relative vapour density : No data available
Particle characteristics : No data available

Safety Data Sheet

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Preparation / Revision Date: 01 Jun 2024
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JQI-SDS-5026-0-GHS

10. STABILITY AND REACTIVITY

Oxidization	: None
Self-reactivity and explosiveness	: None
Stability	: Chemically stable
Reactivity	: None
Others	: Especially nothing

11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral): Category 5 (5000mg/kg \geq ATEmix > 2000mg/kg)
Acute toxicity (Dermal): Category 5 (5000mg/kg \geq ATEmix > 2000mg/kg)
Acute toxicity (Gases, Vapours, Dusts): Not classified or Classification not possible.
Acute toxicity (Mists): Category 4 (5.0mg/L \geq ATEmix > 1.0mg/L)
Skin corrosion / irritation: Category 3 (Ingredients classified as a Category 3 \geq 10%)
Serious eye damage / eye irritation: Category 2B (Ingredients classified as a Category 1 \geq 3%)
Sensitization - respiratory: Classification not possible.
Sensitization - skin: Not classified.
Germ cell mutagenicity: Category 2 (Ingredients classified as a Category 2 \geq 1.0%)
Carcinogenicity: Not classified.
Reproductive toxicity: Classification not possible.
Specific target organ toxicity - Single exposure: Category 2(Lungs)(Ingredients classified as a Category 2 \geq 10%)
Specific target organ toxicity - Category 1(Lungs, Skin)(Ingredients classified as a Category 1 \geq 10%)
Aspiration hazard: Category 1 (Ingredients classified as a Category 1 \geq 10%, and kinematic viscosity at 40°C \leq 20.5 mm²/s.)

12. ECOLOGICAL INFORMATION

Hazardous to the aquatic environment—Short-Term(Acute) hazard: Classification not possible.
Hazardous to the aquatic environment—Long-Term(Chronic)hazard: Classification not possible.
Hazardous to the ozone layer: Classification not possible.

13. DISPOSAL CONSIDERATIONS

The product and empty packing materials should be disposed of according to the local regulations and laws.

14. TRANSPORT INFORMATION

Land and inland navigation transport (ADR / RID)

UN No. Not applicable

Marine transport (IMDG)

UN No. Not applicable

Marine Pollutant Not applicable

Air transport (ICAO / IATA)

UN No. Not applicable

Safety Data Sheet

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Preparation / Revision Date: 01 Jun 2024
Product: ENGINE FLUSH

JQI-SDS-5026-0-GHS

15. REGULATORY INFORMATION

Please follow all regulations in your country.

16. OTHER INFORMATION

Especially nothing.

NOTES:

Although written contents are created based on data and the information, which have been obtained at present, they do not make what kind of guarantee about the data of a publication, or evaluation. Moreover, since the items mentioned are aimed at the usual handling, in carrying out special handling, please deal with it after implementing the safety measures, which were newly suitable for a use and usage.