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| HONDA | SAFETY DATA SHEET | Page : 1 / 9 |
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| | | Issue date : 21/06/2016 |
| | | Supersedes : 26/09/2013 |
| | | HONDA-73 |

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name/designation : HONDA PSF-2
Product code : 08284-9990xHE
Document no. : HONDA-73

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Lubricants

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Honda Motor Europe Logistics NV
Langerbruggestraat 104
9000 Gent - BELGIUM
T +32 (0)9 250 1211 - F +32 (0)9 250 1230
Kristiaan.van.renterghem@honda-eu.com

National representative:
United Kingdom:
Honda Motor Europe Ltd
London Road 470, SL3 8QY Slough Berkshire, Great Britain
Tel: 0044 1753590326

1.4. Emergency telephone number

Emergency number : +32 (0)3 575 0330
This telephone number is available 24 hours per day, 7 days per week.

| Country | Official advisory body | Address | Emergency number |
|----------------|--|---|--|
| Ireland | National Poisons Information Centre Beaumont Hospital | Beaumont Hospital Beaumont Road 9 Dublin | +353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7) |
| United Kingdom | National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle | 0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours, healthcare professionals only) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Extra phrases : EUH210 - Safety data sheet available on request.

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2.3. Other hazards

Other hazards : PBT/vPvB data : This information is not available.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Substance name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------------|--|---------|---|
| Mineral oil (<3% DMSO) | (CAS No) - (EC no) - (EC Index) - | 60 - 70 | Not classified |
| Dec-1-ene, dimers, hydrogenated | (CAS No) 68649-11-6 (EC no) 500-228-5 | 15 | Acute Tox. 4 (Inhalation), H332 Asp. Tox. 1, H304 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice : First aider: Pay attention to self-protection. See also section 8 . Never give anything by mouth to an unconscious person or a person with cramps. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

Inhalation : Provide fresh air. Keep at rest. Artificial respiration and/or oxygen may be necessary. Get medical advice/attention.

Skin contact : Take off immediately all contaminated clothing. Wash with plenty of water. In case of doubt or persistent symptoms, consult always a physician.

Eyes contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician.

In case of ingestion : If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Rinse mouth. Drink 1 or 2 glasses of water. If symptoms persist, call a physician.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation : May be irritating.

Skin contact : No adverse effects are expected. May be irritating.

Eyes contact : No adverse effects are expected. May be irritating.

Ingestion : No adverse effects are expected. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

4.3. Indication of any immediate medical attention and special treatment needed

In case of doubt or persistent symptoms, consult always a physician.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.

Unsuitable extinguishing media : Strong water jet.

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5.2. Special hazards arising from the substance or mixture

Specific hazards : Combustible liquid. Thermal decomposition can lead to the escape of irritating gases and vapours. Carbon oxides . Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

5.3. Advice for firefighters

Firefighting instructions : Special protective equipment for firefighters. . In case of fire: Wear self-contained breathing apparatus. Use water spray or fog for cooling exposed containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Provide for sufficient ventilation, particularly in closed rooms. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Evacuate personnel to a safe area. Stay upwind/keep distance from source. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. Ensure equipment is adequately earthed.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Reference to other sections: 8.

6.2. Environmental precautions

Do not allow material to contaminate ground water system. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Collect in closed and suitable containers for disposal. Delivery to an approved waste disposal company. Clean-up methods - large spillage: : Large spills should be collected mechanically (remove by pumping) for disposal. Clean contaminated areas thoroughly.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8 . Disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only in well ventilated areas. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not pipette liquid using a mouth pipette. Avoid contact with skin and eyes. Do not breathe vapour/aerosol. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. After use replace the closing cap immediately. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Do not allow to enter into surface water or drains. Take any precaution to avoid mixing with incompatible materials.

Hygiene measures : Keep good industrial hygiene. When using do not eat, drink or smoke. Wash hands before breaks and immediately after using the product. Keep work clothes separately. Take off contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a cool, well-ventilated place. Keep away from heat. Do not store near or with any of the incompatible materials listed in section 10. Store in upright position only. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers.

Packaging materials : Do not pierce or burn, even after use. Do not burn, or use a cutting torch on, the empty drum.

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7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| HONDA PSF-2 | |
|-------------|--|
| EU | Mineral oil OEL's : oil (mist) TLV-TWA (mg/m ³) : 1 (se, no); 5 (be, nl, gb, fr, de, fi, dk) oil (mist) TLV-STEL (mg/m ³) : 3 (se); 10 (be, gb): |

Additional information : Concentration measurement in air. Personal air monitoring

8.2. Exposure controls

| | |
|---------------------------------|--|
| Engineering control measures | : Provide adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Take precautionary measures against static discharges. Organisational measures to prevent /limit releases, dispersion and exposure : Reference to other sections: 7. |
| Personal protection equipment | : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Hand protection | : Not required for normal conditions of use. In case of skin contact : Spillage,. Long-term exposure : Wear chemically resistant gloves (tested to EN374) . NBR (Nitrile rubber) . Breakthrough time (maximum wearing time) : >8h/. Thickness of the glove material: : >0,3mm. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves |
| Eye protection | : During splash contact: Safety glasses with side-shields (EN166) |
| Body protection | : Not required for normal conditions of use. Wear suitable protective clothing |
| Respiratory protection | : In case of insufficient ventilation, wear suitable respiratory equipment. Full face mask (EN 136). Half-face mask (DIN EN 140). respirator with A filter (EN141) |
| Thermal hazard protection | : Not required for normal conditions of use. Use dedicated equipment. |
| Environmental exposure controls | : Do not allow to enter into surface water or drains. Comply with applicable Community environmental protection legislation. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|-------------------------|
| Physical state | : liquid |
| Appearance | : liquid. |
| Colour | : tan. |
| Odour | : characteristic. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point/freezing point | : No data available |
| Freezing point | : No data available |
| Initial boiling point and boiling range | : No data available |
| Flash point | : 176 °C (COC ASTM D92) |
| Auto-ignition temperature | : No data available |

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|---------------------------------------|---|
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Vapour density | : No data available |
| Relative density | : No data available |
| Density | : 0,86 g/cm ³ (@ 15 °C) |
| Solubility | : Water: Insoluble |
| Partition coefficient n-octanol/water | : No data available |
| Kinematic viscosity | : 50,5 mm ² /s (@ 40°C) |
| Dynamic viscosity | : No data available |
| Explosive properties | : Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule. |
| Oxidising properties | : Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties. |
| Explosive limits | : Not applicable |

9.2. Other information

Other properties : Pour point : -45°C.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reference to other sections: 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Reference to other sections: 7.

10.5. Incompatible materials

Strong oxidizing agents . Reference to other sections: 7.

10.6. Hazardous decomposition products

Hazardous decomposition products. Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

| HONDA PSF-2 | |
|---|-------------------------------------|
| LD50/oral/rat | 288574,3 mg/kg |
| LD50/dermal/rat | 1537272,4 mg/kg |
| Mineral oil (<3% DMSO) (-) | |
| LD50/oral/rat | > 5000 mg/kg (OECD 401) |
| LD50/dermal/rabbit | > 2000 mg/kg (OECD 402) |
| LC50/inhalation/4h/rat | > 5000 mg/m ³ (OECS 403) |
| Dec-1-ene, dimers, hydrogenated (68649-11-6) | |
| LC50/inhalation/4h/rat | 1,17 (0,94 - 1,46) mg/l/4h |

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|-----------------------------------|--|
| Skin corrosion/irritation | : Not classified (Based on available data, the classification criteria are not met) pH: No data available |
| Serious eye damage/eye irritation | : Not classified (Based on available data, the classification criteria are not met) pH: No data available |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |

| | |
|---------------------|----------------------------------|
| HONDA PSF-2 | |
| Kinematic viscosity | 50,5 mm ² /s (@ 40°C) |

Other information : Symptoms related to the physical, chemical and toxicological characteristics.
Reference to other sections: 4.2.

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

12.2. Persistence and degradability

| | |
|-------------------------------|---------------------------|
| HONDA PSF-2 | |
| Persistence and degradability | No information available. |

12.3. Bioaccumulative potential

| | |
|---------------------------------------|---------------------------|
| HONDA PSF-2 | |
| Partition coefficient n-octanol/water | No data available |
| Bioaccumulative potential | No information available. |

12.4. Mobility in soil

| | |
|--------------------|---------------------------|
| HONDA PSF-2 | |
| Mobility in soil | No information available. |
| Ecology - soil | No information available. |

12.5. Results of PBT and vPvB assessment

| | |
|---------------------------|--------------------------|
| HONDA PSF-2 | |
| Results of PBT assessment | No information available |

12.6. Other adverse effects

Additional information : No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Handle with care. Safe handling: see section 7 . Do not allow to enter into surface water or drains. Dispose of contaminated materials in accordance with current regulations. Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility.

Additional information : Empty containers should be taken to local recyclers for disposal.

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List of proposed waste codes/waste designations in accordance with EWC (2001/573/EC, 75/442/EEC, 91/689/EEC) : Waste codes should be assigned by the user based on the application for which the product was used

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|---|---|------------------------------------|------------------------------------|------------------------------------|
| 14.1. UN number | | | | |
| NA | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| NA | Not applicable | Not applicable | Not applicable | Not applicable |
| Transport document description | | | | |
| UN NA NA | | | | |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| Not applicable | | | | |

14.6. Special precautions for user

Special precautions for user : Not applicable

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

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

Code: IBC : Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

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|--|---------------------------------|
| 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 | Dec-1-ene, dimers, hydrogenated |
| 3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 | Dec-1-ene, dimers, hydrogenated |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

France

Installations classées :

Not applicable

Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)

Risk classification according to VbF : Not applicable

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

Waterbezwaarlijkheid : 11 - Weinig schadelijk voor in het water levende organismen

Saneringsinspanningen : B - Lozing minimaliseren; toepassen van best uitvoerbare technieken

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

Indication of changes:

Safety datasheet sections which have been updated :1-2-3-11-12-14-15-16.

Abbreviations and acronyms:

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|--|---|
| | ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals |
| | TLV = Threshold limits |
| | TWA = time weighted average |
| | STEL = Short term exposure limit |
| | EC50 = Median Effective Concentration |
| | LC50 = Median lethal concentration |
| | LD50 = Median lethal dose |
| | persistent, bioaccumulating and toxic (PBT). |
| | vPvB = very persistent and very bioaccumulating |
| | WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act) |
| | NA = Not applicable |

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). Name (SDS) : HONDA PSF-2 (34051716).
 Manufacturer/Supplier : Idemitsu Kosan Co., Ltd. Revision date : 15-Feb-2013.

Training advice : Training staff on good practice.

Other information : Assessment/classification CLP. Article No.: 9. Calculation method.

Full text of H- and EUH-statements:

| | |
|---------------------------|---|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| H304 | May be fatal if swallowed and enters airways. |
| H332 | Harmful if inhaled. |
| EUH210 | Safety data sheet available on request. |

The contents and format of this SDS are in accordance with EEC Commission Directive 2015/830/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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