

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

All System Hydraulic Fluid

of the mixture

Registration number

Synonyms None.

Product No.: All System Hydraulic Fluid

Issue date 21-June-2013

Version number 02

Revision date 30-July-2015 Supersedes date 21-June-2013

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

Identified uses Steering and Suspension.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

Company name Federal Mogul Corporation (BE)

Address: Central Distribution Centre

Prins Boudewijnlaan 7 B-2550 Kontich, Belgium

Contact person: Product Manager GA Europe, Middle-East and Africa

e-mail: mario.garelli@federalmogul.com

Address: Mario Garelli - via Fermi, 8 - 37135 Verona -

ITALY; Tel. +39 045 82 81 354

Emergency telephone: 24hr EP (INFOTRAC): 1-800-535-5053

International: (001) 352-323-3500

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, inhalation Category 4 H332 - Harmful if inhaled.

Aspiration hazard Category 1 H304 - May be fatal if swallowed

and enters airways.

Hazard summary Harmful by inhalation. May be fatal if swallowed and enters airways.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Dec-1-ene, dimers, hydrogenated, Distillates (petroleum), hydrotreated middle, Lubricating Oils

(petroleum), C15-30, Hydrotreated Neutral Oil-based

Hazard pictograms

Signal word Danger

Hazard statements

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

Precautionary statements

Prevention

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P261 Avoid breathing mist or vapour.

P271 Use only outdoors or in a well-ventilated area.

Response

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

P331 Do NOT induce vomiting.

Storage Store away from incompatible materials.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazardsNot a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Dec-1-ene, dimers, hydrogenated	30 - 60	68649-11-6 500-228-5	01-2119493069-28	-	
Classification: Asp. Tox. 1;	H304, Acut	e Tox. 4;H332			
Lubricating Oils (petroleum), C15-30, Hydrotreated Neutral Oil-based	30 - 60	72623-86-0 276-737-9	01-2119474878-16	649-482-00-X	
Classification: Asp. Tox. 1;	H304				L
Distillates (petroleum), hydrotreated middle	1 - 5	64742-46-7 265-148-2	01-2119826592-36	649-221-00-X	
Classification: Asp. Tox. 1;	H304				N

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Note N: The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen. This note applies only to certain complex oil-derived substances in Part 3.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Move injured person into fresh air and keep person calm under observation. In case of persistent

throat irritation or coughing or after inhalation of oil mist: Seek medical attention and bring along

these instructions.

Skin contact Remove contaminated clothing and wash skin with soap and water. Get medical attention if

irritation develops and persists.

Eye contact Flush thoroughly with water. If irritation occurs, get medical assistance.

IngestionRinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Do not induce vomiting. If vomiting occurs, the head should be kept low so that

unconscious. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Lay on the side. Get medical attention immediately.

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

several hours after exposure.

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

Treat symptomatically. Be aware that symptoms of chemical pneumonia (shortness of breath) may occur several hours after exposure.

Defats the skin. Be aware that symptoms of chemical pneumonia (shortness of breath) may occur

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SECTION 5: Firefighting measures

General fire hazards Will burn if involved in a fire.

5.1. Extinguishing media

Suitable extinguishing

media

Water spray, dry powder or carbon dioxide.

Unsuitable extinguishing

media

Water jet.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions

indicated in the workplace.

Special fire fighting

procedures

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Containers close to fire should be removed immediately or cooled with water.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Use standard firefighting procedures and consider the hazards of other involved

materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Extinguish all ignition sources. Avoid sparks, flames and smoking. Ventilate. Avoid inhalation of oil mist and contact with skin and eyes. Avoid prolonged and repeated contact with oil, particularly used oil. Wear suitable protective clothing.

Use personal protection recommended in Section 8 of the SDS. For emergency responders

6.2. Environmental precautions 6.3. Methods and material for

containment and cleaning up 6.4. Reference to other

Remove sources of ignition. Absorb spillage with oil-absorbing material. Clean contaminated area

with oil-removing material. Collect in containers and seal securely.

Do not discharge into drains, water courses or onto the ground.

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid inhalation of oil mist and contact with skin and eyes. Avoid prolonged and repeated contact with oil, particularly used oil. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets. Use work methods which minimise oil mist production. Wear appropriate personal protective equipment. See Section 8 for personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed and dry. Keep container in a well-ventilated place. Keep away from

heat, sparks and open flame. Store away from incompatible materials.

7.3. Specific end use(s)

Steering and Suspension.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

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

Recommended monitoring

procedures

Follow standard monitoring procedures.

Not available. Derived no-effect level (DNEL) Predicted no effect

concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering controls

Use explosion-proof equipment. Adequate ventilation should be provided whenever the material is heated or mists are generated.

Individual protection measures, such as personal protective equipment

Personal protective equipment should be chosen according to the CEN standards and in **General information**

discussion with the supplier of the personal protective equipment.

Eye/face protection

Risk of splashes: Wear approved safety goggles.

Skin protection

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- Hand protection Wear suitable gloves. Nitrile gloves are recommended. Be aware that the liquid may penetrate the

gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Other Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with

combination filter (type A2/P2) can be used.

Thermal hazards When material is heated, wear gloves to protect against thermal burns.

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.

Environmental exposure

controls

Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state
Form
Colour
Various.

Odour
Odour threshold
PH
Not available.

Melting point/freezing point

Initial boiling point and boiling

Liquid.
Liquid.
Various.

Oil smell.
Not available.

Not apllicable.

< -50 °C (< -58 °F)
> 220 °C (> 428 °F)

range

Flash point > 120.0 °C (> 248.0 °F)

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.

Vapour pressure < 0.1 kPa @ (20 °C)

Vapour density Not available.

Relative density 0.82 - 0.83 @ (15°C)

Solubility(ies) Insoluble in water. Soluble in non-polar solvents.

Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature > 300 °C (> 572 °F)

Decomposition temperature Not available.

Viscosity 16 - 20 cSt @ (40°C)

Explosive properties Not available.

Oxidizing properties Not available.

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. ReactivityThe product is stable and non reactive under normal conditions of use, storage and transport.

10.2. Chemical stabilityStable under normal temperature conditions.

10.3. Possibility of hazardous

reactions

Will not occur.

10.4. Conditions to avoid Heat, sparks, flames.

10.5. Incompatible materials10.6. HazardousStrong oxidising agents. Strong acids.Carbon dioxide. Carbon monoxide.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

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Information on likely routes of exposure

Inhalation Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory

> system and provoke coughing. Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection in

the respiratory tract.

Skin contact May cause skin irritation. Prolonged and repeated contact with used oil may dry skin and cause

redness. Prolonged or repeated contact with used oil may cause serious skin diseases, such as

dermatitis. The harmful effects may increase in used oil.

Eye contact May cause minor irritation on eye contact.

May cause discomfort if swallowed. Swallowing or vomiting of the liquid may result in aspiration Ingestion

into the lungs.

Symptoms Defats the skin. Be aware that symptoms of chemical pneumonia (shortness of breath) may occur

several hours after exposure.

11.1. Information on toxicological effects

Acute toxicity Harmful if inhaled. Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye

irritation

May cause minor irritation on eye contact.

Respiratory sensitisation No data available. Skin sensitisation Not a skin sensitiser. Germ cell mutagenicity No data available.

Carcinogenicity Prolonged and repeated contact with used oil may cause serious skin diseases, such as

dermatitis and skin cancer.

Reproductive toxicity Specific target organ toxicity single exposure

No data available. No data available.

Specific target organ toxicity -

No data available.

repeated exposure

Aspiration hazard

May be fatal if swallowed and enters airways.

Mixture versus substance

information

Not available.

No data available. Other information

SECTION 12: Ecological information

12.1. Toxicity 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.

12.2. Persistence and

degradability

Expected to be inherently biodegradable.

No data available on bioaccumulation. 12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

Not available

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil No data available.

The product is insoluble in water and will spread on the water surface. Mobility in general

12.5. Results of PBT

and vPvB assessment Not a PBT or vPvB substance or mixture.

No data available. 12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Since emptied containers retain product residue, follow label warnings even after container is Contaminated packaging

emptied.

EU waste code 13 01 10*

Waste codes should be assigned by the user based on the application for which the product was

Disposal methods/information Disposal recommendations are based on material as supplied. Disposal must be in accordance

with current applicable laws and regulations, and material characteristics at time of disposal.

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SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

Code

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not established.

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended. The product is classified and labelled in accordance with Regulation (EC) 1272/2008

(CLP Regulation) as amended and respective national laws implementing EC directives.

Follow national regulation for work with chemical agents. **National regulations**

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SECTION 16: Other information

List of abbreviations

References

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.

Registry of Toxic Effects of Chemical Substances (RTECS)

HSDB® - Hazardous Substances Data Bank

Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if

available. For details, refer to Sections 9, 11 and 12.

Full text of any H-statements not written out in full under Sections 2 to 15

H304 May be fatal if swallowed and enters airways.

H332 Harmful if inhaled.

Training information

Disclaimer

ion Follow training instructions when handling this material.

The information provided on this data sheet was abstracted from supplier safety data sheets and standard references in occupational health and toxicology. Federal-Mogul makes no representation or warranty with respect to the information obtained from such references. The

information is however, as of the date provided, true and accurate to the best of Federal-Mogul's knowledge, and should be used to make an independent determination of the methods to

safeguard workers and the environment.

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