

# **SAFETY DATA SHEET**

**United States** 

Section 1. Identification

**Product name** 

**Hydrualic Fluid VG15** 

**Catalogue Number** 29151340

Other means of identification Product type

Not available.

Liquid.

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

Lubricants

Consumer use

Supplier Cytiva

Amersham Place Little Chalfont Buckinghamshire

HP7 9NA United Kingdom +44 1494 508000

INFOTRAC - 24 Hour number: 1-800-535-5053 In case of emergency

Outside of the United States, call 24 Hour number: 001-352-323-3500 (Call Collect)

Cytiva USA

100 Results Way Marlborough, MÁ 01752

1-800-526-3593

Section 2. Hazards identification

**OSHA/HCS** status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200).

ASPIRATION HAZARD - Category 1 Classification of the substance

or mixture AQUATIC HAZARD (LONG-TERM) - Category 4

**GHS label elements** 

**Hazard pictograms** 



Signal word

**Hazard statements** May be fatal if swallowed and enters airways.

May cause long lasting harmful effects to aquatic life.

**Precautionary statements** 

Prevention Avoid release to the environment.

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Response

Storage

Disposal Dispose of contents and container in accordance with all local, regional, national and international

regulations.

Hazards not otherwise

classified

None known.

Hazards identified when used No known significant effects or critical hazards.

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# Section 3. Composition/information on ingredients

Substance/mixture Other means of identification Not available.

Identifiers Ingredient name **Synonyms** % Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated; ≥65 - ≤85 CAS: 68037-01-4

1-Decene, homopolymer, hydrogenated; Hydrogenated polydecene; E 907; hydrogenated poly-1-decene; hydrogenated polydec-1-ene; hydrogenated poly-

alpha-olefin; 1-Decene,

hydrogenated; Hydrogenated decene homopolymer; Hydrogenation reaction products of polymer of dec-1-ene; Hydrogenated polymer of dec-1-ene; Hydrogenated alpha-olefin (C4-14) oligomer (2-23); Hydrogenated alpha-olefin (C4-10)

oligomer (3-23); HOMOPOLYMER, DECENE HYDROGENATED

Dec-1-ene, dimers, hydrogenated ≥10 - ≤30 CAS: 68649-11-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check

for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention

if irritation occurs.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing,

if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before

reuse.

Ingestion Get medical attention immediately. Call a poison center or physician. Wash out mouth with water.

Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a

collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

# Potential acute health effects

Eye contact No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways.

# Over-exposure signs/symptoms

Eye contact No specific data. Inhalation No specific data. Skin contact No specific data

Ingestion Adverse symptoms may include the following:

nausea or vomiting

# Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have

been ingested or inhaled.

Specific treatments No specific treatment

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may be

dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

the chemical

Unsuitable extinguishing media

Specific hazards arising from

In a fire or if heated, a pressure increase will occur and the container may burst. This material may cause long lasting harmful effects to aquatic life. Fire water contaminated with this material must be

contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products No specific data.

None known.

Special protective actions for

fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

Special protective equipment

for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective

equipment.

For emergency responders If specialized clothing is required to deal with the spillage, take note of any information in Section 8

on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. **Environmental precautions** Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air). Water polluting material. May be harmful to the environment if released in large

quantities.

#### Methods and materials for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in

an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent Large spill entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent

treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact

with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do

not reuse container.

Advice on general occupational hygiene Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also

Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Do not store in unlabeled containers. Use appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials before handling or use.

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# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name **Exposure limits** Dec-1-ene, homopolymer, hydrogenated None. Dec-1-ene, dimers, hydrogenated None.

**Biological exposure indices** 

No exposure indices known.

Appropriate engineering

controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to

acceptable levels.

**Individual protection measures** 

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all

times when handling chemical products if a risk assessment indicates this is necessary

Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting

of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** Personal protective equipment for the body should be selected based on the task being performed

and the risks involved and should be approved by a specialist before handling this product.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected based on the

task being performed and the risks involved and should be approved by a specialist before handling

this product.

Respiratory protection Based on the hazard and potential for exposure, select a respirator that meets the appropriate

standard or certification. Respirators must be used according to a respiratory protection program to

ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. Color Colorless. Odor Characteristic. **Odor threshold** Not available pН Not applicable. Melting point/freezing point <39°C (<102.2°F) **Boiling point or initial boiling** >280°C (>536°F)

point and boiling range

Flash point Closed cup: >125°C (>257°F) [Product does not sustain combustion.]

Not applicable. **Burning time Burning rate** Not applicable. **Evaporation rate** Not available. **Flammability** Not available Lower and upper explosive Not available.

(flammable) limits

Not available. Vapor pressure

> Vapor Pressure at 20°C Vapor pressure at 50°C

Ingredient name mm Ha kPa Method mm Ha kPa Method

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Dec-1-ene, <0.0041 <0.00055 ASTM E homopolymer. 1194-87

hydrogenated

Dec-1-ene, dimers, <0.0041 <0.00055 ASTM E hydrogenated 1194-87

Relative vapor density

Relative density

Not available.

Not available.

**Density** 0.82 g/cm³ [15°C (59°F)]

Solubility in water Not applicable.

Miscible with water No

Partition coefficient: n-octanol/

Not applicable.

water

Auto-ignition temperature Not available.

Ingredient name °C °F Method

Dec-1-ene, homopolymer, 343 to 369 649.4 to 696.2 ASTM D 2159

hydrogenated

Dec-1-ene, dimers, hydrogenated 343 to 369 649.4 to 696.2 ASTM D 2159

**Decomposition temperature** Not available.

SADT Not available.

Viscosity Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available.

Kinematic (40°C (104°F)): 13.5 to 16.5 mm<sup>2</sup>/s (13.5 to 16.5 cSt)

Flow time (ISO 2431) Not available.

Particle characteristics

Median particle size Not applicable.

# Section 10. Stability and reactivity

**Reactivity**No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data.

Incompatible materials No specific data.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

# Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Not available.

Conclusion/Summary

[Product]

Not available.

### Skin corrosion/irritation

Not available.

Conclusion/Summary [Product]

Not available.

# Serious eye damage/eye irritation

Not available.

Conclusion/Summary

Not available.

[Product]

# Respiratory corrosion/irritation

Not available.

Conclusion/Summary

Not available.

[Product]

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### Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary

[Product]

Not available.

Respiratory

Conclusion/Summary

[Product]

Not available.

### Germ cell mutagenicity

Not available.

Conclusion/Summary

[Product]

Not available.

### Carcinogenicity

Not available.

Conclusion/Summary

[Product]

Not available.

#### Reproductive toxicity

Not available.

Conclusion/Summary

[Product]

Not available.

### Specific target organ toxicity (single exposure)

Not available.

# Specific target organ toxicity (repeated exposure)

Not available.

# **Aspiration hazard**

Name Result

Dec-1-ene, homopolymer, hydrogenated ASPIRATION HAZARD - Category 1
Dec-1-ene, dimers, hydrogenated ASPIRATION HAZARD - Category 1

Information on the likely routes

of exposure

Not available.

# Potential acute health effects

Eye contactNo known significant effects or critical hazards.InhalationNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.IngestionMay be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contactNo specific data.InhalationNo specific data.Skin contactNo specific data.

**Ingestion** Adverse symptoms may include the following:

nausea or vomiting

# Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects Not available.

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Potential delayed effects

Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

#### Potential chronic health effects

Not available.

Conclusion/Summary

[Product]

Not available.

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.Reproductive toxicityNo known significant effects or critical hazards.

# **Numerical measures of toxicity**

### **Acute toxicity estimates**

N/A

# Section 12. Ecological information

#### **Toxicity**

Not available.

Conclusion/Summary

[Product]

Not available.

#### Persistence and degradability

Not available.

# **Bioaccumulative potential**

Product/ingredient nameLogPowBCFPotentialDec-1-ene, homopolymer,<br/>hydrogenated>6.5-HighDec-1-ene, dimers, hydrogenated>6.5-High

**Mobility in soil** 

Soil/Water partition coefficient Not available.

Other adverse effects No known significant effects or critical hazards.

# Section 13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimized wherever possible. Disposal of this

product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

Product is not regulated as dangerous goods for transport.

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# Section 15. Regulatory information

U.S. Federal regulations TSCA 8(a) CDR Exempt/Partial exemption: All components are listed or exempted.

### TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112(b) Hazardous Air Pollutants

Not listed

(HAPs)

Clean Air Act Section 602 Class I Substances

Clean Air Act Section 602 Class II Substances

Not listed

DEA List I Chemicals (Precursor Chemicals)

Not listed

DEA List II Chemicals (Essential Chemicals)

Not listed

SARA 302/304

#### Composition/information on ingredients

No products were found.

SARA 304 RQ Not applicable.

**SARA 311/312** 

Classification ASPIRATION HAZARD - Category 1

Composition/information on ingredients

Name % Classification

Dec-1-ene, homopolymer, 50 - 100 ASPIRATION HAZARD - Category 1

hydrogenated

Dec-1-ene, dimers, hydrogenated 10 - 20 ASPIRATION HAZARD - Category 1

State regulations

MassachusettsNone of the components are listed.New YorkNone of the components are listed.New JerseyNone of the components are listed.PennsylvaniaNone of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

### **International regulations**

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

# Stockholm Convention on Persistent Organic Pollutants

Not listed.

# Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### **Inventory list**

United States All components are active or exempted.

Canada inventory All components are listed or exempted.

### Section 16. Other information

### National Fire Protection Association (U.S.A.)



# Procedure used to derive the classification

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Classification Justification

ASPIRATION HAZARD - Category 1 Calculation method AQUATIC HAZARD (LONG-TERM) - Category 4 Calculation method

**History** 

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Date of previous issue No previous validation

Version 1

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**Key to abbreviations** ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified

by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations Not available.

References

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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