

MATERIAL SAFETY DATA SHEET**1. IDENTIFICATION OF SUBSTANCE :**Trade name : **Jurid DOT 5.1****Manufacturer / Supplier :****Honeywell Aftermarket Europe**
Am Ochsenwald
66539 Neunkirchen - GermanyTel : +49 (0) 6821 404 0
Fax : +49 (0) 6821 42244

2. COMPOSITION / DATA ON COMPOSANTS :**Chemical nature** : Polyglycols, glycol ether, glycoether borate, inhibiteurs.**Hazardous ingredients** :

Triethyleneglycol-monobutylether CAS 143-22-6	Content : < 20 % (poids) Hazard Symbol : Xi R-phrases : 36
Diethyleneglycolmonomethylether CAS 111-77-3	Content : > 1 - < 5 % (poids) Hazard Symbol : Xn R-phrases : 22
Diethyleneglycol CAS 111-46-6	Content : 1- 5 % (weight) Hazard Symbol : Xn R-phrases : 22
Diethyleneglycolmonohexylether CAS 112-59-4	Content : < 10% (poids) Hazard Symbol : Xn R-phrases : 21-36/38
Aliphatic amine EINECS-NO. 203-055-0	Content : > 2 - < 5 % (weight) Hazard Symbol : C R-phrases : 34

3. HAZARD IDENTIFICATION :**Main Hazards** : Not classified as hazardous.**Health Effects - Eyes** : Liquid or vapour may cause slight transient irritation.**Health Effects - Skin** : Material may cause slight irritation on prolonged or repeated contact.

Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.

Health Effects - Ingestion : Swallowing may have the following effects : - dizziness, drowsiness, nausea, vomiting, kidney damage.**Health Effects - Inhalation** : Exposure to vapour at high concentrations may have the following effects :- irritation of nose, throat and respiratory tract.

Exposures during normal handling and use are likely to be well below those that would be expected to produce the above effects.

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4. FIRST AID MEASURES :

First Aid – Eyes : Immediately flood the eye with plenty of water for at least 10 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

First Aid - Skin : Wash skin with water. Contaminated clothing should be washed or dry-cleaned before re-use.

First Aid - Ingestion : Wash out mouth with water. Do not induce vomiting. Obtain medical attention.

First Aid - Inhalation : Remove from exposure.

5. FIRE FIGHTING MEASURES :

Extinguishing Media : If fire has to be extinguished, use water spray, alcohol foam, dry chemical or carbon dioxide.

Protective Equipment for Fire-Fighting : Wear self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES :

Personal Precautions : Wear appropriate protective clothing.

Environmental Precautions : Try to prevent the material from entering drains or water courses.

Spillages : Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE :

Handling : Avoid contact with eyes, skin and clothing.

Storage : To avoid moisture contamination, store under a nitrogen blanket or fit a desiccant unit in the tank vent line.

Suitable storage materials are : - mild steel. stainless steel.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION :

Hand Protection : PVC or rubber gloves.

Eye Protection : Chemical goggles.

Honeywell Friction Materials - Germany – SAFETY DATA SHEET

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9. PHYSICAL AND CHEMICAL PROPERTIES :

Physical State :	Liquid.
Colour :	Colourless to amber
Odour :	Odourless.
Boiling Range / Point °C	> 260° C
Melting Point °C	< - 50° C
Flash Point (PMCC) °C	> 100° C
Vapour Pressure (kPa)	Less than 1 at 20 °C
Auto- flammability °C	> 200° C
Danger of explosion	Is not explosive
Viscosity (cst)	≤ 900 à - 40° C ≥ à 1,5 à 100° C
PH	Range between 7 to 11.5
Density (kg/m³)	<> 1058 à 20 °C
Solubility in Water (kg/m³)	Completely soluble.
Pour Point °C	- 50

10. STABILITY AND REACTIVITY :

Stability : Stable under normal conditions. Hygroscopic.

Hazardous Decomposition Products : None known.

Conditions to Avoid : Exposure to water or moisture.

Materials to Avoid : Water.

11. TOXICOLOGICAL INFORMATION :

Acute Toxicity : Low order of acute toxicity predicted. (data on main component(s))

12. ECOLOGICAL INFORMATION :

Mobility : The product is involatile and water soluble and will partition to the aqueous phase. The product will dissolve rapidly in water. If released to soil it will evaporate at a low rate.

Persistence / Degradability : The product is expected to be readily biodegradable.

Bio-accumulation : Product is not expected to bioaccumulate.

Ecotoxicity : The product is expected to be practically non-toxic to aquatic species.

13. DISPOSAL CONSIDERATIONS :

Product Disposal : Incinération

Container Disposal : Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near to the container.

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14. TRANSPORT INFORMATION :

UK Transport Information	UK Transport Classification : Not classified.
ADR / RID – Class	Not classified
IMDG – Class	Not classified
IATA – Class	Not classified

15. REGULATORY INFORMATION :

Labelling Information : Health : Not Classified
Physico-Chemical : Not Classified
Environment : Not Classified

Phrases R : Not applicable

Phrases S : S2 : Keep out of reach of children.
S24/S25 : Avoid contact with skin and eyes.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46 : If swallowed, seek medical advice immediately and show this container or label.

EINECS Listing : Preparation containing solely EINECS listed substances.

Numero CEE – Annexe I : Not listed.

16. OTHER INFORMATION :

Uses and Restrictions : Automotive, transport products. Brake fluids.

Moisture has an adverse effect on the performance properties of brake fluid. Brake fluids and components absorb moisture from the air; store in sealed containers (for bulk storage see Section 7).

Notice :

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing data specification sheets : R & D.

MSDS data revised : 05.02.2002

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