

Infosafe No™ LQ28H	Issue Date : April 2013	ISSUED by JOHNDEER
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Product Name : **80% PREMIUM ETHER STARTING FLUID**

Classified as hazardous

1. Identification

GHS Product Identifier	80% PREMIUM ETHER STARTING FLUID
Product Code	RE556468, RE556468AU
Company Name	JOHN DEERE LIMITED (Australia)
Address	166-170 Magnesium Drive, Crestmead, QLD, 4132 Australia
Telephone/Fax Number	Tel: (AU) 1800 800 981 (NZ) 0800 303 100 Fax: +61 7 3803 6555
Emergency phone number	1800 822 826 (AU) / +1 1800 822 8262 (NZ)
Recommended use of the chemical and restrictions on use	Starting fluid.

2. Hazard Identification

Classification of the substance or mixture	Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
Signal Word (s)	Flammable Aerosol: Category 1 Acute Toxicity - Oral: Category 4 STOT Single Exposure Category 3 (narcotic) Danger
Hazard Statement (s)	H222 Extremely flammable aerosol. H302 Harmful if swallowed. H336 May cause drowsiness or dizziness.
Pictogram (s)	Flame, Exclamation mark



Precautionary statement – Prevention	P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.
Precautionary statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth.
Precautionary statement – Storage	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Precautionary statement – Disposal	P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Diethyl ether	60-29-7	80-90 %

Safety Data Sheet

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Ingredients	Name	CAS	Proportion
	Petroleum gases, liquefied, sweetened	68476-86-8	10-20 %
	Carbon dioxide	124-38-9	<10 %
	Distillates, Solvent-refined Heavy Paraffinic	64741-88-4	<1 %

4. First-aid measures

Inhalation	If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.
Ingestion	Not considered a potential route of exposure. However if swallowed do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.
Skin	Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.
Eye contact	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Remove contact lenses. If symptoms develop and/or persist seek medical attention.
First Aid Facilities	Eyewash and normal washroom facilities.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Use carbon dioxide, dry chemical, foam, water fog or water mist.
Unsuitable Extinguishing Media	Do not use water jet.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.
Specific hazards arising from the chemical	Contents under pressure - cans can explode in a fire. This product is extremely flammable. Keep containers and fire-exposed surfaces cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.
Hazchem Code	2YE
Decomposition Temp.	Not available
Precautions in connection with Fire	Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Extinguish or remove all sources of ignition and stop leak if safe to do so. Wear appropriate personal protective equipment and clothing to prevent exposure. Evacuate all unprotected personnel. Water spray or fog may be used to disperse/absorb vapour if any. Place inert, non-combustible absorbent material onto spillage. If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely. Collect residues and seal in labelled drums for disposal. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations. Dispose of waste according to applicable local and national regulations.
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7. Handling and storage

Precautions for Safe Handling	Wear appropriate personal protective equipment and clothing to prevent exposure. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. DO NOT store or use in confined
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Safety Data Sheet

Infosafe No™ LQ28H

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Conditions for safe storage, including any incompatibilities

spaces. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Build up of mists or vapours in the atmosphere must be prevented. Do not spray on a naked flame or any incandescent material. Do NOT puncture, burn, cut or heat containers as they may contain hazardous residues. Do not smoke. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

Store in a cool, dry, well ventilated area away from sources of ignition, oxidising agents, foodstuffs, clothing and out of direct sunlight. Protect container against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Do NOT pressurise, cut or heat aerosol containers. Content is under pressure and can explode violently. For information on the design of the storeroom, reference should be made to Australian Standard AS 2278-2000 Non-refillable metal aerosol dispensers of capacity 50 mL to 1000 mL inclusive. Reference should also be made to all Local, State and Federal regulations.

8. Exposure controls/personal protection

Occupational exposure limit values

No exposure value assigned for this material by Safe Work, Australia. However, the available exposure limits for ingredients are listed below:

Safe Work, Australia Exposure Standards:

Substance	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Carbon dioxide	5000	9000	30000	54000	-
Diethyl ether	400	1210	500	1520	-

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Biological Limit Values

No biological limits allocated.

Appropriate engineering controls

Before entering a confined space where carbon dioxide is present, check to make sure sufficient Oxygen (19.5%) exists. Refer to AS 2865 - 2009 Australian Standard

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Footwear

Wear safety footwear. Final choice will vary according to individual circumstances. Reference should be made to AS/NZS 2210.1: 2010 Safety, protective and occupational footwear-Guide to selection, care and use.

9. Physical and chemical properties

Appearance Liquid

Colour Clear

Safety Data Sheet

Infosafe No™ LQ28H Issue Date : April 2013 ISSUED by JOHNDEER

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Odour	Ether odour
Decomposition Temperature	Not available
Melting Point	Not available
Boiling Point	35°C - 93.3°C
Solubility in Water	Slight
Specific Gravity	0.7 (Concentrate)
pH	Not available
Vapour Pressure	537 mmHg (Diethyl ether) (at 25°C)
Vapour Density (Air=1)	>1
Evaporation Rate	>1
Odour Threshold	Not available
Viscosity	Not available
Partition Coefficient: n-octanol/water	Not available
Flash Point	-49°C (Diethyl ether) (Tag Closed Cup)
Flammability	Extremely flammable aerosol.
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	1.85 (Diethyl ether)
Flammable Limits - Upper	48.0 (Diethyl ether)
Other Information	Precent volatile by weight (%): 100%

10. Stability and reactivity

Reactivity	Reacts with incompatibles.
Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Heat, open flames and other sources of ignition.
Incompatible Materials	Nitric plus acetic acid, nitric plus sulphuric acid, amines, strong oxidizing agents.
Hazardous Decomposition Products	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Container may burst if exposed to temperatures above 54.4°C.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Toxicology Information	No toxicity data available for this material.
Ingestion	Ingestion unlikely due to form of product. Harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.
Inhalation	May cause irritation to the mucous membrane and upper airways, especially where vapours or mists are generated. Symptoms include sneezing, coughing, wheezing, shortness of breath, headache, dizziness, drowsiness nausea and vomiting.
Skin	May cause frostbite injuries to skin due to uncontrolled release of compressed gas resulting in redness, tissue destruction.

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Eye	May be irritating to eyes. The symptoms may include redness, itching and tearing.
Respiratory sensitisation	Not expected to be a respiratory sensitiser.
Skin Sensitisation	Not expected to be a skin sensitiser.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Carcinogenicity	Not considered to be a carcinogenic hazard.
Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	Not expected to cause toxicity to a specific target organ.
Aspiration Hazard	Not expected to be an aspiration hazard.
Chronic Effects	Prolonged or repeated exposure through inhalation of product may lead to sensitisation and occupational asthma.

12. Ecological information

Ecotoxicity	No ecological data available for this material.
Persistence and degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environmental Protection	Do not discharge this material into waterways, drains and sewers.

13. Disposal considerations

Disposal Considerations	Dispose of waste according to applicable local and national regulations. Do not pierce, burn, cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Empty the container completely before disposal. Contaminated containers must not be treated as household waste. Advise flammable nature
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14. Transport information

Transport Information	<p>Road and Rail Transport (ADG Code): This material is classified as Dangerous Goods Division 2.1 - Flammable Gases according to the Australian Code for the Transport of Dangerous Goods by Road or Rail. (7th edition) Division 2.1 Dangerous Goods are incompatible in a placard load with any of the following:</p> <ul style="list-style-type: none"> - Class 1, Explosives - Division 2.2 Non-flammable, Non toxic gases that have a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500L capacity. - Class 3, Flammable Liquids, if both the Division 2.1 and Class 3 dangerous goods are in tanks or other receptacles with a capacity individually exceeding 500L. - Division 4.1, Flammable Solids - Division 4.2, Spontaneously Combustible Substances - Division 4.3, Dangerous When Wet Substances - Division 5.1, Oxidising substances - Division 5.2, Organic Peroxides - Class 7, Radioactive Substances <p>Marine Transport (IMO/IMDG): Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. Division: 2.1</p>
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EmS: F-D,S-U
UN-No: 1950
Special Provisions: 63 190 277 327 344 959
Proper Shipping Name: Aerosols

Air Transport (ICAO/IATA):
Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
Division: 2.1
Packaging Instructions (cargo only): 203
Packaging Instructions (passenger & cargo): 203
UN-No: 1950
Label: Flammable gas
Proper Shipping Name: Aerosols, flammable
1950

U.N. Number

UN proper shipping name AEROSOLS

Transport hazard class(es) 2.1

Hazchem Code 2YE

EPG Number 2D1

IERG Number 49

IMDG Marine pollutant No

15. Regulatory information

Regulatory Information Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Poisons Schedule Not Scheduled

AICS (Australia) All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted.

16. Other Information

Date of preparation or last revision of SDS SDS Created: April 2013

Literature References Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.
...End Of MSDS...

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