

Safety Data Sheet

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Version: G

SDS number: 10045296

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Product Name: LIQUID DOT 371

Product Code: 29846, 39111, 39113, 39124

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

Recommended use: Printing operations

1.3 Details of the supplier of the safety data sheet

Manufacturer: Glunz & Jensen A/S

Selandia Park 1 DK - 4100 Ringsted

Denmark

Phone: +45 5768 8181 **Fax:** +45 5768 8340

1.4 Emergency phone number

For Chemical Emergency Spill, Leak, Fire Exposure, or Accident call

CHEMTREC day or night: + 1 800 424 9300 (US and Canada).

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation (EC) No 1272/2008:

Reproductive Toxicity: Category 1B Specific target organ systemic toxicity (single exposure): Category 3

Physical hazards: Flammable liquids Category 3

Classification according to EU Directives 67/548/EEC or 1999/45/EC:

For the full text of the R-phrases mentioned in this Section, see Section 16.

R-code(s): R10 - R67.

2.2 Label elements







Signal word: Danger

Hazard Statements:

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H360 - May damage fertility or the unborn child

H226 - Flammable liquid and vapor

Precautionary Statements - EU (§28, 1272/2008):

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P304 + P340 - IF INHALED: Remove 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

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

2.3 Other hazards

No information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	EC No	CAS-No	Weight %	Classification	GHS Classification	REACH No
Propylene glycol monomethyl ether	203-539-1	107-98-2	90 - 100	R10/67	Flam. Liq. 3 - (H226) STOT SE 3 - (H336)	No data available
Diacetone alcohol	204-626-7	123-42-2	1 - 5	Xi; R36	Eye Irrit. 2 - H319	No data available
2-Methoxy-1- propanol	216-455-5	1589-47-5	< 0.5	R10 Xi;R37/38-41 Repr.Cat.2; R61	Skin Irrit. 2 - (H315) Flam. Liq. 3 - (H226) Repr. 1B - (H360D) STOT SE 3 - (H335) Eye Dam. 1 - (H318)	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice:

Show this safety data sheet to the doctor in attendance.

Eye contact:

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

Skin contact:

Wash off immediately with soap and plenty of water. Use a mild soap if available. Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation develops, get medical attention.

Inhalation:

If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

Ingestion:

If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

None under normal use conditions.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which shall not be used for safety reasons:

No information available.

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Burning produces obnoxious and toxic fumes.

Special protective equipment for fire-fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURE

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate the area. Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Do not use sparking tools.

6.4 Reference to other sections

See Section 12 for additional information.



7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling:

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove and wash contaminated clothing before re-use. Discard contaminated shoes. When using do not smoke. Take notice of the directions of use on the label. Do not take internally. Harmful or fatal if swallowed.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep out of the reach of children. Keep away from heat and sources of ignition.

7.3 Specific end uses

Exposure Scenario: No information available. Other Guidelines: No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure limits:

Component	European Union	The United Kingdom	France	Spain	Germany
Propylene glycol monomethyl ether		STEL: 150 ppm STEL: 560 mg/m³ TWA: 100 ppm TWA: 375 mg/m³ Skin	TWA/VME: 50 ppm (restrictive limit) TWA/VME: 188 mg/m³ (restrictive limit) STEL/VLCT: 100 ppm (restrictive limit) STEL/VLCT: 375 mg/m³ (restrictive limit) Skin	STEL/VLA-EC: 150 ppm STEL/VLA-EC: 568 mg/m³ TWA/VLA-ED: 100 ppm TWA/VLA-ED: 375 mg/m³ Skin	TWA/MAK: 100 ppm TWA/MAK: 370 mg/m³ Peak: 200 ppm Peak: 740 mg/m³ TWA/AGW: 100 ppm TWA/AGW: 370 mg/m³
Diacetone alcohol		STEL: 75 ppm STEL: 362 mg/m³ TWA: 50 ppm TWA: 241 mg/m³	TWA/VME: 50 ppm TWA/VME: 240 mg/m³	TWA/VLA-ED: 50 ppm TWA/VLA-ED: 241 mg/m³	TWA/MAK: 20 ppm TWA/MAK: 96 mg/m³ Peak: 40 ppm Peak: 192 mg/m³ TWA/AGW: 20 ppm TWA/AGW: 96 mg/m³ Skin

Component	Italy	Portugal	The Netherlands	Finland	Denmark
Propylene glycol monomethyl ether	TWA: 100 ppm TWA: 375 mg/m³ STEL: 150 ppm STEL: 568 mg/m³ Skin	STEL/VLE-CD: 150 ppm TWA/VLE-MP: 100 ppm	STEL: 563 mg/m³ TWA: 375 mg/m³ Skin	TWA: 100 ppm TWA: 370 mg/m³ STEL: 150 ppm STEL: 560 mg/m³ Skin	TWA: 50 ppm TWA: 185 mg/m³
Diacetone alcohol		TWA/VLE-MP: 50 ppm		TWA: 50 ppm TWA: 240 mg/m³ STEL: 75 ppm STEL: 360 mg/m³	TWA: 50 ppm TWA: 240 mg/m ³

Component	Austria	Switzerland	Poland	Norway	Ireland
Propylene glycol monomethyl ether	STEL/KZW: 50 ppm STEL/KZW: 187mg/m³ TWA/TMW: 50 ppm TWA/TMW: 187 mg/m³ Ceiling: 50 ppm Ceiling: 187 mg/m³ Skin	STEL/KZW: 200 ppm STEL/KZW: 720 mg/m³ TWA/MAK: 100 ppm TWA/MAK: 360 mg/m³	NDSCh: 360 mg/m³ TWA/NDS: 180 mg/m³	TWA: 50 ppm TWA: 180 mg/m³ Skin	TWA: 100 ppm TWA: 375 mg/m³ STEL: 150 ppm STEL: 568 mg/m³
Diacetone alcohol	TWA/TMW: 50 ppm TWA/TMW: 240 mg/m³ Skin	STEL/KZW: 40 ppm STEL/KZW: 192 mg/m³ TWA/MAK: 20 ppm TWA/MAK: 96 mg/m³ Skin	TWA/NDS: 240 mg/m³	TWA: 25 ppm TWA: 120 mg/m ³	TWA: 50 ppm TWA: 240 mg/m³ STEL: 75 ppm STEL: 360 mg/m³

Derived No Effect Level (DNEL):

No information available.

Predicted No Effect Concentration (PNEC):

No information available.

8.2 Exposure controls

Engineering measures:

Use ventilation adequate to keep exposures below recommended exposure limits. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment

Eye protection:

Ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with eyes. Safety glasses with side-shields. Goggles. Face-shield.



Skin protection:

Wear protective gloves/clothing. Solvent-resistant apron and boots.

Hand protection:

Nitrile rubber. Neoprene gloves.

Respiratory protection:

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Respirator with a vapour filter.

Enviromental exposure controls:

No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Liquid.

Appearance:Coloured, liquidOdour:Characteristic

Odour treshold: No information available

ph:No data availableMelting point/Range:No data availableFreezing point/Range:No data availableBoiling point/Range:>149 °C/ 300 °F

Flash point: 32 °C/89 °F Tag closed cup

Flammability (solid, gas): No data available

Flammability Limits in air:

Upper: No data available No data available Lower: No data available Vapour pressure: Heavier than air. Vapour density: Relative density: No data available Solubility: No data available Partition coefficient: n-octanol/water: No data available **Autoignition Temperature:** No data available **Decomposition temperature:** No data available Viscosity: No data available

Explosive Properties:No information available. **Oxidizing Properties:**No information available.

9.2 Other information

Specific Gravity: 0.93

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of Hazardous reaction

None under normal processing.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide (CO2). Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Component	LD 50 Oral	LD 50 Dermal	LD 50 Inhalation
Propylene glycol monomethyl ether	5200 mg/kg (Rat)	13000 mg/kg (Rabbit)	54.6 mg/L (Rat) 4 h >24 mg/L (Rat) 1 h
Diacetone alcohol	4 g/kg (Rat)	13500 mg/kg (Rabbit)	

This product contains one or more substances which are classified in the EU as carcinogenic, mutagenic and/or reprotoxic:

Component	Classification	
2-Methoxy-1-propanol	Reproductive Toxicity 1B	

Irritation: No information available Corrosivity: No information available No information available **Sensitisation:** Mutagenic effects: No information available Carcinogenic effects: No information available Reproductive effects: No information available Developmental hazards: No information available STOT - single exposure: No information available STOT - repeated exposure: No information available Aspiration hazard: No information available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

We have no quantitative data concerning the ecological effects of this product. Environmental fate information is derived from consideration of the properties of the ingredients.

Component	Algae	Fish	Water Flea
Propylene glycol		96h LC50 Leuciscus idus: 4600 - 10000 mg/L [static]	48h EC50 Daphnia magna:
monomethyl ether		96h LC50 Pimephales promelas: 20.8 g/L [static]	23300 mg/L
D' (-		96h LC50 Lepomis macrochirus: 420 mg/L	24h EC50 Daphnia magna:
Diacetone alcohol		96h LC50 Lepomis macrochirus: 420 mg/L [static]	8750 mg/L

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative pootential:

Component	log Pow
Propylene glycol monomethyl ether	-0.437
Diacetone alcohol	1.03

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assesment

No information available.

12.6 Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from Residues/ Unused Products:

Dispose of in accordance with local regulations.

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

IMDG/IMO:

UN1210, Printing Ink, 3, III

RID:

UN1210, Printing Ink, 3, III

ADR

UN1210, Printing Ink, 3, III

ICAO:

UN1210, Printing Ink, 3, III

IATA:

UN1210, Printing Ink, 3, III

15. REGULATORY INFORMATION

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

International Inventories:

Listed on TSCA. For further information, please contact: Manufacturer, importer, supplier.

Regulation (EC) No. 1907/2006 (REACH), Article 57:

This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57).

15.2 Chemical Safety Assessment

No information available.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3:

R10 - Flammable

R67 - Vapours may cause drowsiness and dizziness

R36 - Irritating to eyes

R61 - May cause harm to the unborn child

R41 - Risk of serious damage to eyes

R37/38 - Irritating to respiratory system and skin

Full text of H-Statements referred to under sections 2 and 3:

H226 - Flammable liquid and vapor

H336 - May cause drowsiness or dizziness

H319 - Causes serious eye irritation

H315 - Causes skin irritation

H360D - May damage the unborn child

H335 - May cause respiratory irritation

H318 - Causes serious eye damage

Key literature references and sources for data:

www.ChemADVISOR.com

Revison Date: 12.09.2014

Revison Note: new MSDS format

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

END OF SAFETY DATA SHEET