Trade name: Mara® Jet DI-TV 401 CL BAG 500 ML

Version: 2 / GB Date revised: 04.02.2021

Substance number: 36570043401 Replaces Version: 1 / GB Print date: 05.05.21

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

### 1.1. Product identifier

Mara® Jet DI-TV 401 CL BAG 500 ML

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

### Use of the substance/preparation

Digital auxiliary

### **Identified Uses**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites PROC1 Chemical production or refinery in closed process without likelihood of exposure

or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes

with occasional controlled exposure or processes with equivalent containment

condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at nondedicated

facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC10 Roller application or brushing PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring PROC19 Manual activities involving hand contact

ERC4 Industrial use of processing aids in processes and products, not becoming part of

articles

ERC8a Wide dispersive indoor use of processing aids in open systems
ERC8d Wide dispersive outdoor use of processing aids in open systems

### Uses advised against

SU21 Consumer uses: Private households (= general public = consumers)

### 1.3. Details of the supplier of the safety data sheet

### Address/Manufacturer

Marabu GmbH & Co. KG Asperger Strasse 4 71732 Tamm Germany

Telephone no. +49-7141/691-0 Fax no. +49-7141/691-147

Information provided Department product safety

by / telephone

E-mail address of PRSI@marabu.com

person responsible

for this SDS

# 1.4. Emergency telephone number

(+49) (0)621-60-43333

# SECTION 2: Hazards identification \*\*\*

### 2.1. Classification of the substance or mixture

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### Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315 Eye Dam. 1 H318

### 2.2. Label elements

### Labelling according to regulation (EC) No 1272/2008

### **Hazard pictograms**



### Signal word

Danger

#### Hazard statements \*\*\*

H315 Causes skin irritation. H318 Causes serious eye damage.

### Precautionary statements \*\*\*

P264.1 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P362 Take off contaminated clothing.

### Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Gamma-butyrolactone

### 2.3. Other hazards

No special hazards have to be mentioned.

# SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

### **Chemical characterization**

Solvent mixture of glycol ethers and ketones

### **Hazardous ingredients**

### Diethyleneglycoldiethylether

CAS No. 112-36-7 EINECS no. 203-963-7

Concentration >= 50 < 100 %

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315

### Gamma-butyrolactone

CAS No. 96-48-0 EINECS no. 202-509-5

Registration no. 01-2119471839-21

Concentration >= 10 < 15 %

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Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302 Eye Dam. 1 H318 STOT SE 3 H336

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

### **General information**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

### After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### After skin contact

Affected skin should first be dabbed with cotton wool, then washed with plenty of water and a mild cleanser. After contact with skin, wash immediately with plenty of water. In case of contact with skin wash off with warm water. Do not pull solidified product from skin.

### After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Until now no symptoms known so far.

# 4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / treatment

Treat symptomatically

# SECTION 5: Firefighting measures

### 5.1. Extinguishing media

### Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist, Not be used for safety reasons: water jet

### 5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); dense black smoke

### 5.3. Advice for firefighters

### Special protective equipment for fire-fighting

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

# SECTION 6: Accidental release measures

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

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

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### 6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

### 6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

# SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

### Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Avoid skin and eye contact. Avoid the inhalation of particulates and spray mist arising from the application of this mixture. Smoking, eating and drinking shall be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.

### Advice on protection against fire and explosion

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air

### Classification of fires / temperature class / Ignition group / Dust explosion class

Classification of fires B (Combustible liquid substances)

Temperature class T4

## 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Requirements for storage rooms and vessels: Electrical installations/working materials must comply with the local applied technological safety standards. Storage rooms in which filling operations take place must have a conducting floor. Store in accordance with national regulation

### Hints on storage assembly

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

# Further information on storage conditions

Observe label precautions. Store between 15 and 30 °C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3. Specific end use(s)

Digital auxiliary

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

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### **Derived No/Minimal Effect Levels (DNEL/DMEL)**

Gamma-butyrolactone

Type of value Derived No Effect Level (DNEL)

Reference group Worker Duration of exposure Long term Route of exposure inhalative Mode of action Systemic effects

Concentration mg/m<sup>3</sup> 130

Type of value Derived No Effect Level (DNEL)

Reference group Worker Duration of exposure Long term Route of exposure dermal

Systemic effects Mode of action

Concentration 19 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer Duration of exposure Long term Route of exposure inhalative Mode of action Systemic effects

mg/m<sup>3</sup> Concentration 28

Type of value Derived No Effect Level (DNEL)

Reference group Consumer Duration of exposure Long term Route of exposure dermal

Mode of action Systemic effects

Concentration mg/cm<sup>2</sup>

Derived No Effect Level (DNEL) Type of value

Reference group Consumer Duration of exposure Long term Route of exposure oral

Mode of action Systemic effects

Concentration mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer Duration of exposure Acute Route of exposure inhalative Mode of action Systemic effects

Concentration mg/m<sup>3</sup> 340

Type of value Derived No Effect Level (DNEL)

Reference group Worker Duration of exposure Acute Route of exposure inhalative Mode of action

Systemic effects

Concentration 958 mg/m<sup>3</sup>

### **Predicted No Effect Concentration (PNEC)**

Gamma-butyrolactone

Type of value **PNEC** Type Freshwater

Concentration 0,056 mg/l

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Type of value PNEC Saltwater

Concentration 0,0056 mg/l

Type of value PNEC

Type Water (intermittent release)

Concentration 0,56 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 0,24 mg/kg

Type of value PNEC

Type Marine sediment

Concentration 0,02 mg/kg

Type of value PNEC Type Soil

Concentration 0,014683 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 452 mg/l

### 8.2. Exposure controls

### **Exposure controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

#### Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A

### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm
Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

### Eye protection

Use safety eyewear designed to protect against splash of liquids.

### **Body protection**

Cotton or cotton/synthetic overalls or coveralls are normally suitable.

# SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Form Liquid
Colour transparent
Odour solvent-like

Odour threshold

Remarks No data available

pH value

Remarks Not applicable

**Melting point** 

Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

Value appr. 188 °C

Pressure 1.013 hPa

Source Literature value

Flash point

Value 73 °C

Method ASTM D 6450 (CCCFP)

Evaporation rate (ether = 1):

Remarks not determined

Flammability (solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Lower explosion limit appr. 2,7 %(V)
Upper explosion limit appr. 15,6 %(V)

Source Literature value

Vapour pressure

Value < 1 hPa

Temperature 20 °C

Method calculated

Vapour density

Remarks not determined

**Density** 

Value 0,945 g/cm<sup>3</sup>

Temperature 20 °C

Method DIN EN ISO 2811

Solubility in water

Remarks partially miscible

Partition coefficient: n-octanol/water

Remarks Not applicable

Ignition temperature

Value appr. 174 °C

Source Literature value

**Viscosity** 

Value 7,7 to 8,3 mPa.s

Temperature 20 °C

**Explosive properties** 

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evaluation no

**Oxidising properties** 

evaluation None known

### 9.2. Other information

### Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

### 10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

### 10.3. Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.4. Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

### 10.5. Incompatible materials

No hazardous reactions when stored and handled according to prescribed instructions.

### 10.6. Hazardous decomposition products

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture).

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

# **Acute oral toxicity**

ATE > 2.000 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)

### **Acute oral toxicity (Components)**

Gamma-butyrolactone

Species rat

LD50 1582 mg/kg

Method OECD 401

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

### **Acute inhalative toxicity (Components)**

Gamma-butyrolactone

Species rat

LC0 5,1 mg/l

Duration of exposure 4 h

Administration/Form Vapors
Method OECD 403

Skin corrosion/irritation

evaluation irritant

Remarks The classification criteria are met.

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### Serious eye damage/irritation

evaluation corrosive

Remarks The classification criteria are met.

### Serious eye damage/irritation (Components)

Gamma-butyrolactone

Species rabbit

evaluation irritant - risk of serious damage to eyes

Method OECD 405

Sensitization

Remarks Based on available data, the classification criteria are not met.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

### **Specific Target Organ Toxicity (STOT)**

Single exposure

Remarks Based on available data, the classification criteria are not met.

Repeated exposure

Remarks Based on available data, the classification criteria are not met.

### **Specific Target Organ Toxicity (STOT) (Components)**

### Gamma-butyrolactone

Single exposure

evaluation May be irritating to respiratory tract.

### **Aspiration hazard**

Based on available data, the classification criteria are not met.

### **Experience in practice**

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Irritating to skin. The liquid splashed in the eyes may cause irritation. Causes serious eye damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly.

# SECTION 12: Ecological information

### 12.1. Toxicity

### **General information**

There are no data available on the mixture itself.Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008

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and is not classified as dangerous for the environment.

### 12.2. Persistence and degradability

### **General information**

There are no data available on the mixture itself.

### 12.3. Bioaccumulative potential

### **General information**

There are no data available on the mixture itself.

### Partition coefficient: n-octanol/water

Remarks Not applicable

### 12.4. Mobility in soil

#### **General information**

There are no data available on the mixture itself.

### 12.5. Results of PBT and vPvB assessment

### General information

There are no data available on the mixture itself.

#### 12.6. Other adverse effects

### **General information**

There are no data available on the mixture itself.

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

### Disposal recommendations for the product

Do not allow to enter drains or water courses.

Wastes and emptied containers should be classified in accordance with relevant national regulation.

The European Waste Catalogue classification of this product, when disposed of as waste is

EWC waste code 08 03 12\* waste ink containing dangerous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information contact your local waste authority.

### Disposal recommendations for packaging

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Not emptied containers are hazardous waste (waste code number 150110).

# SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport	The product does not constitute a hazardous substance in sea transport	The product does not constitute a hazardous substance in air transport
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
Subsidiary risk		-	-
Label			
14.4. Packing group	-	-	-
Transport category	0		
14.5. Environmental hazards		no	
	-		-

## Information for all modes of transport

### 14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

# SECTION 15: Regulatory information

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

### VOC

VOC (EU) 100 % VOC (EU) 945 g/l

### Other information

The product does not contain substances of very high concern (SVHC).

### Other information

All components are contained in the TSCA inventory or exempted.

All components are contained in the AICS inventory.

All components are contained in the PICCS inventory.

All components are contained in the DSL inventory.

All components are contained in the NZIOC inventory.

All components are contained in the ENCS inventory.

All components are contained in the ECL inventory.

### 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

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## SECTION 16: Other information

# Hazard statements listed in Chapter 3

H302 Harmful if swallowed. H315 Causes skin irritation.

H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

### **CLP categories listed in Chapter 3**

Acute Tox. 4 Acute toxicity, Category 4
Eye Dam. 1 Serious eye damage, Category 1
Skin Irrit. 2 Skin irritation, Category 2

STOT SE 3 Specific target organ toxicity - single exposure, Category 3

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\* This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship. The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.