Trade name: ClearJet A-2000 Gloss Aerosol

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Substance number: 360363001 Replaces Version: 6 / WORLD Print date: 24.07.19

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

1.1. Product identifier

ClearJet A-2000 Gloss Aerosol

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

Use of the substance/preparation

Spray varnish

1.3. Details of the supplier of the safety data sheet

Address

Marabu North America 2460A Remount Road 29406 North Charleston, SC

Telephone no. 843-886-0094

sds-mna@marabu.com

Information provided Department product safety

by / telephone

E-mail address of PRSI@marabu.de

person responsible

for this SDS

1.4. Emergency telephone number

CHEMTREC 703-527-3887 CCN5004

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Eye Irrit. 2 H319
STOT SE 3 H336
Aerosol 1 H222
H229
Skin Sens. 1A H317
Aquatic Chronic 3 H412

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.

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H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

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

contains Acetone;1-Methoxy-2-propanol;Butanone;Reaction mass of

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; reaction mass of

alpha-3-(3-(2h-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-h

ydroxypoly(oxyethylene) and alpha-3-(3-(2h-benzotriazol-2-yl)-

5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2h-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene);(R)-p-mentha-1,8-diene

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

Further supplemental information

Without adequate ventilation, explosive atmosphere/gas mix may be created.

SECTION 3: Composition/information on ingredients ***

Hazardous ingredients

Acetone

CAS No. 67-64-1 EINECS no. 200-662-2

Registration no. 01-2119471330-49

Concentration >= 25 < 50 %

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

Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336

1-Methoxy-2-propanol

CAS No. 107-98-2 EINECS no. 203-539-1

Registration no. 01-2119457435-35

Concentration >= 20 < 25 %

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

STOT SE 3 H336 Flam. Liq. 3 H226

Butanone

CAS No. 78-93-3 EINECS no. 201-159-0

Registration no. 01-2119457290-43

Concentration >= 1 < 10 %

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

Eye Irrit. 2 H319 STOT SE 3 H336 Flam. Liq. 2 H225

(R)-p-mentha-1,8-diene

CAS No. 5989-27-5 EINECS no. 227-813-5

Registration no. 01-2119529223-47

Concentration % >= 0,25 1

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

Aquatic Chronic 1 H410 Aquatic Acute 1 H400 Flam. Liq. 3 H226 Skin Irrit. 2 H315 Skin Sens. 1 H317 Asp. Tox. 1 H304

reaction mass of

alpha-3-(3-(2h-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyet hylene) and alpha-3-(3-(2h-benzotriazol-2-yl)-

5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2h-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphe nyl)propionyloxypoly(oxyethylene)

EINECS no. 400-830-7

Registration no. 01-0000015075-76

Concentration 0,1 %

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

Skin Sens. 1 H317 Aquatic Chronic 2 H411

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Registration no. 01-2119491304-40

Concentration 0,1 0,25 %

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

Skin Sens. 1A H317 H400 Aquatic Acute 1 Aquatic Chronic 1 H410

Further ingredients ***

Propane

CAS No. 74-98-6

EINECS no. 200-827-9

[3] Concentration 10 25 % >= <

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

Flam. Gas 1 H220

Press. Gas

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[3] Substance with occupational exposure limits

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. 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. Summon a doctor immediately.

After skin contact

After contact with skin, wash immediately with plenty of water. Don't use solvents.

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

Summon a doctor immediately. Keep at rest. Do NOT induce vomiting.

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 dioxide (CO2); Carbon monoxide (CO); 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

Keep away sources of ignition. Ensure adequate ventilation. Do not breathe gas/fumes/vapour/spray. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not empty into drains. 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

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Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Provide good ventilation of working area (local exhaust ventilation if necessary). Handle and open container with care. Isolate from sources of heat, sparks and open flame. Avoid skin and eye contact. Smoking, eating and drinking shall be prohibited in application area. Comply with the health and safety at work laws.

Advice on protection against fire and explosion

No special measures required.

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

Classification of fires C (Flammable gases)

Temperature class T3

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with national regulation

Further information on storage conditions

Keep away from sources of ignition. Keep container tightly closed, cool and dry. Observe label precautions.

7.3. Specific end use(s)

Spray varnish

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Derived No/Minimal Effect Levels (DNEL/DMEL)

Acetone

Type of value Derived No Effect Level (DNEL)

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

Concentration 186 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Short term
Route of exposure inhalative

Concentration 2420 mg/m³

Type of value Derived No Effect Level (DNEL)

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

Concentration 1210 mg/m³

Type of value Derived No Effect Level (DNEL)

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

Concentration 62 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Consumer Duration of exposure Long term

Concentration 62 mg/kg/d

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Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure inhalative

Concentration 200 mg/m³

1-Methoxy-2-propanol

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Concentration

Worker

Acute

inhalative

Local effects

553,5

Concentration 553,5 mg/m³

Type of value Derived No Effect Level (DNEL)

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

Mode of action Systemic effects

Concentration 50,6 mg/person/

d

Type of value Derived No Effect Level (DNEL)

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

Concentration 369 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group General Population

Duration of exposure Long term Route of exposure dermal

Mode of action Systemic effects

Concentration 18,1 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group General Population

Duration of exposure
Route of exposure
Mode of action
Long term
inhalative
Systemic effects

Concentration 43,9 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group General Population

Duration of exposure Long term Route of exposure oral

Mode of action Systemic effects

Concentration 3,3 mg/kg/d

Predicted No Effect Concentration (PNEC)

Acetone

Type of value PNEC
Type Freshwater

Concentration 10,6 mg/l

Type of value PNEC

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Type Saltwater

Concentration 1,06 mg/l

Type of value PNEC

Type Water (intermittent release)

Concentration 21 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 30,4 mg/kg

Type of value PNEC

Type Marine sediment

Concentration 3,04 mg/kg

Type of value PNEC Type Soil

Concentration 29,5 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 100 mg/l

1-Methoxy-2-propanol

Type of value PNEC
Type Freshwater

Concentration 10 mg/l

Type of value PNEC Type Water

Concentration 41,6 mg/kg

Type of value PNEC
Type Sediment

Concentration 41,6 mg/kg

Type of value PNEC

Type Marine sediment

Concentration 4,17 mg/kg

Type of value PNEC Type Soil

Concentration 2,47 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 100 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.

Respiratory protection

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

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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

Safety glasses

Body protection

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form Aerosol
Colour colourless
Odour solvent-like

Initial boiling point and boiling range

Value appr. 56 °C

Pressure 1.013 hPa

Source Literature value

Flash point

Remarks Not applicable

Upper/lower flammability or explosive limits

Lower explosion limit appr. 1,5 %(V)
Upper explosion limit appr. 13,7 %(V)

Source Literature value

Density

Value appr. 0,92 g/cm³

Source calculated value

Partition coefficient: n-octanol/water

Remarks Not applicable

Ignition temperature

Value appr. 287 °C Source Literature value

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

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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.

10.6. 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

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

Acute oral toxicity (Components)

Acetone

Species rat

LD50 5800 mg/kg

1-Methoxy-2-propanol

Species rat

LD50 5200 mg/kg

Acute dermal toxicity

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

Acute dermal toxicity (Components)

Acetone

Species rabbit

LD50 20000 mg/kg

1-Methoxy-2-propanol

Species rabbit

LD50 14000 mg/kg

Acute inhalational toxicity

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

Skin corrosion/irritation

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

Serious eye damage/irritation

evaluation irritant

Remarks The classification criteria are met.

Sensitization

evaluation May cause sensitization by skin contact.
Remarks The classification criteria are 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.

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Specific Target Organ Toxicity (STOT)

Single exposure

Remarks The classification criteria are met. evaluation May cause drowsiness or dizziness.

Repeated exposure

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

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. May cause an allergic skin reaction. The liquid splashed in the eyes may cause irritation and reversible 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 GHS/CLP Regulation (EC) No 1272/2008.

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 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Fish toxicity (Components)

1-Methoxy-2-propanol

Species golden orfe (Leuciscus idus)

LC0 > 4600 mg/l

Duration of exposure 96 h

Daphnia toxicity (Components)

1-Methoxy-2-propanol

Species Daphnia magna

EC50 23300 mg/l

Duration of exposure 48 h

Algae toxicity (Components)

1-Methoxy-2-propanol

Species Desmodesmus

EC50 > 1000 mg/l

Duration of exposure 168 h

Bacteria toxicity (Components)

1-Methoxy-2-propanol

Species activated sludge

EC50 > 1000 mg/l

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12.2. Persistence and degradability

General information

No data available

Biodegradability (Components)

1-Methoxy-2-propanol

Value 90 %

Duration of test 28 d

evaluation Readily biodegradable (according to OECD criteria)

Method OECD 301 F

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water

Remarks Not applicable

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Do not allow to enter drains or water courses.

Disposal recommendations for packaging

Non-contaminated packages may be recycled.

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

SECTION 14: Transport information

Land transport ADR/RID

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

Class 2 Label 2.1

14.4. Packing group

Packing group Limited Quantity 1 I
Transport category 2

14.5. Environmental hazards

Tunnel restriction code D

Marine transport IMDG/GGVSee

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

Class 2.1

14.4. Packing group

Packing group -

14.5. Environmental hazards

no

Air transport ICAO/IATA

14.1. UN number

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UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

Class 2.1

14.4. Packing group

Packing group

14.5. Environmental hazards

SECTION 15: Regulatory information

SECTION 16: Other information

Hazard statements listed in Chapter 3

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
11400	

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Acute 1 Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic, Category 2

Asp. Tox. 1

Eye Irrit. 2

Flam. Liq. 2

Flam. Liq. 3

Skin Irrit. 2

Skin Sens. 1

Skin Sens. 1A

Aspiration hazard, Category 1

Eye irritation, Category 2

Flammable liquid, Category 2

Flammable liquid, Category 3

Skin irritation, Category 2

Skin sensitization, Category 1

Skin sensitization, Category 1A

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.