



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

1.1. Product identifier

ClearJet Fine Art BR Low-Gloss

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

Use of the substance/preparation

Liquid laminate

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Marabu North America
2460 A Remount Rd.
North Charleston, SC 29406
Telephone no. (843) 886-0094
Fax no. (843) 886-3701
Information Department product safety
provided by /
telephone
E-mail address of PRSI@marabu.de
person
responsible for
this SDS

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Occupational Safety and Health Administration (OSHA), DOL, 29 CFR 1910.1200 (Hazard Communication))

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

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
STOT SE 3	H336

2.2. Label elements

Labelling according to Occupational Safety and Health Administration (OSHA), DOL, 29 CFR 1910.1200 (Hazard Communication)

Hazard pictograms



Signal word

Danger

Safe Data Sheet according to U.S. DOL, OSHA, 29 CFR 1910.1200, The Hazard Communication Standard (HCS)

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Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H226 Flammable liquid and vapour.

Precautionary statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235 Keep cool.
P241.1 Use explosion-proof ventilating equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
3
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
8

Storage/Disposal

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501.1 Dispose of contents/container to industrial incineration plant.

Hazardous component(s) to be indicated on label

contains Butan-1-ol;Orange, sweet, ext.Ethyl acetate;n-Butyl acetate

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Solvent containing liquid laminate

Hazardous ingredients

n-Butyl acetate

CAS No. 123-86-4
EINECS no. 204-658-1
Registration no. 01-2119485493-29
Concentration >= 25 < 50 %

Classification (Occupational Safety and Health Administration (OSHA), DOL, 29 CFR 1910.1200 (Hazard Communication))

Flam. Liq. 3 H226
STOT SE 3 H336

Butan-1-ol

CAS No. 71-36-3
EINECS no. 200-751-6
Registration no. 01-2119484630-38

Safe Data Sheet according to U.S. DOL, OSHA, 29 CFR 1910.1200, The Hazard Communication Standard (HCS)

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Concentration >= 3 < 10 %

Classification (Occupational Safety and Health Administration (OSHA), DOL, 29 CFR 1910.1200 (Hazard Communication))

Acute Tox. 4	H302
STOT SE 3	H335
Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H336
Flam. Liq. 3	H226

2-Butoxyethyl acetate

CAS No. 112-07-2
EINECS no. 203-933-3
Registration no. 01-2119475112-47
Concentration >= 1 < 10 %

Classification (Occupational Safety and Health Administration (OSHA), DOL, 29 CFR 1910.1200 (Hazard Communication))

Acute Tox. 4	H332
Acute Tox. 4	H312
Acute Tox. 4	H302

Ethyl acetate

CAS No. 141-78-6
EINECS no. 205-500-4
Registration no. 01-2119475103-46
Concentration >= 1 < 10 %

Classification (Occupational Safety and Health Administration (OSHA), DOL, 29 CFR 1910.1200 (Hazard Communication))

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

Orange, sweet, ext.

CAS No. 8028-48-6
EINECS no. 232-433-8
Registration no. 01-2119493353-35-0008
Concentration >= 1 < 2,5 %

Classification (Occupational Safety and Health Administration (OSHA), DOL, 29 CFR 1910.1200 (Hazard Communication))

Flam. Liq. 3	H226
Asp. Tox. 1	H304
Skin Irrit. 2	H315
Skin Sens. 1	H317
Aquatic chronic 2	H411

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.

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

Safe Data Sheet according to U.S. DOL, OSHA, 29 CFR 1910.1200, The Hazard Communication Standard (HCS)

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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 T3

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 59 and 68 °F 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)

Liquid laminate

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Butan-1-ol

List	ACGIH		
Type	TLV		
Value		20	ppm(V)
Status: 2011			

Ethyl acetate

List	ACGIH		
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Type	TLV		
Value		400	ppm(V)
Status: 2011			

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

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	colourless
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	174 °F
Flash point	
Value	80 °F

Safe Data Sheet according to U.S. DOL, OSHA, 29 CFR 1910.1200, The Hazard Communication Standard (HCS)

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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. 0.9 %(V)

Upper explosion limit appr. 11.3 %(V)

Source Literature value

Vapour pressure

Value 101 hPa

Temperature 68 °F

Method Value taken from the literature

Vapour density

Remarks not determined

Density

Value appr. 0.91 g/cm³

Source calculated value

Solubility in water

Remarks partially miscible

Partition coefficient: n-octanol/water

Remarks Not applicable

Ignition temperature

Value appr. 549 °F

Source Literature value

Efflux time

Value < 12 s

Temperature 68 °F

Method DIN 53211 4 mm

Explosive properties

evaluation no

Oxidising properties

evaluation None known

VOC content

VOC 69.1 %

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

National Toxicology Program (NTP)

The product does not contain any listed components.

International Agency for research on Cancer (IARC)

Components: Ethyl benzene

Acute oral toxicity

ATE	>	2,000	mg/kg
Method		calculated value	

Acute oral toxicity (Components)

n-Butyl acetate

Species		rat (female)	
LD50		10760	mg/kg
Method		OECD 423	

Acute dermal toxicity

ATE	>	2,000	mg/kg
Method		calculated value	

Acute dermal toxicity (Components)

n-Butyl acetate

Species		Rats (male/female)	
LD50		14112	mg/kg
Method		OECD 402	

Acute inhalational toxicity

ATE	>	20	mg/l
Administration/Form		Vapors	
Method		calculated value	
ATE	>	5	mg/l
Administration/Form		Dust/Mist	
Method		calculated value	

Acute inhalative toxicity (Components)

n-Butyl acetate

Species		Rats (male/female)	
LC50	>	21	mg/l
Duration of exposure		4	h
Method		OECD 403	

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. May cause an allergic skin reaction. 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 GHS Regulation 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 GHS Regulation and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

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.

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.

SECTION 14: Transport information

Land transport USDOT

- 14.1. UN number
UN 1263
- 14.2. UN proper shipping name
PAINT
- 14.3. Transport hazard class(es)
Class 3
Label 3
- 14.4. Packing group
Packing group III
Special provision 640E
Limited Quantity 5 I
Transport category 3
- 14.5. Environmental hazards
-
Tunnel restriction code D/E

Marine transport IMDG

- 14.1. UN number
UN 1263
- 14.2. UN proper shipping name
PAINT
- 14.3. Transport hazard class(es)
Class 3
- 14.4. Packing group
Packing group III
- 14.5. Environmental hazards
no

Air transport ICAO/IATA

- 14.1. UN number
UN 1263
- 14.2. UN proper shipping name
PAINT
- 14.3. Transport hazard class(es)
Class 3
- 14.4. Packing group
Packing group III
- 14.5. Environmental hazards
-

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 MARPOL73/78 and the IBC Code

no

SECTION 15: Regulatory information

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

Other information

US. EPA CERCLA Hazardous Substances (40 CFR 302): Reportable Quantity

Components: Ethyl benzene; 2-Butoxyethyl acetate

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355)

The product does not contain any listed components.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Components: Ethyl benzene; Butan-1-ol; 2-Butoxyethyl acetate

Clean Water Act (CWA) Section 307 Toxic Pollutants (40 CFR 401.15)

The product does not contain any listed components.

Clean Water Act (CWA) Section 311 Toxic Pollutants (40 CFR 116.4)

Components: n-Butyl acetate

Clean Air Act (CAA) Section 112 Regulated Toxic Substances And Threshold Quantities For Accidental Release Prevention (40 CFR 68.130 Table 1+2)

The product does not contain any listed components.

Clean Air Act (CAA) Section 112 Regulated Flammable Substances And Threshold Quantities For Accidental Release Prevention (40 CFR 68.130 Table 3+4)

The product does not contain any listed components.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

Warning! This product contains chemical(s) known to the State of California to cause cancer or reproductive toxicity:

Ethyl benzene	< 0,1 %
Methanol	< 0,1 %
Toluene	< 0,1 %

Warning! This product may contain trace quantities of substance(s) known to the state of California to cause cancer and/or reproductive toxicity - not added as a part of the formulation but remaining as residuals from the manufacturing process of our raw material suppliers.

Right-To-Know State List: Florida

Components: Triphenyl phosphate; Ethyl benzene; Methanol; Methyl methacrylate; 2-Methylpropan-1-ol; Toluene; Xylene; n-Butyl acetate

Right-To-Know State List: Massachusetts

Components: Ethyl benzene; Methanol; Methyl methacrylate; 2-Methylpropan-1-ol; Toluene; Xylene; n-Butyl acetate

Right-To-Know State List: Minnesota

Components: Triphenyl phosphate; Ethyl benzene; Methanol; Methyl methacrylate; 2-Methylpropan-1-ol; Toluene; Xylene; n-Butyl acetate

Right-To-Know State List: New Jersey

Components: Triphenyl phosphate; Ethyl benzene; Methanol; Methyl methacrylate; 2-Methylpropan-1-ol; Toluene; Xylene; 2-Butoxyethyl acetate; n-Butyl acetate

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Right-To-Know State List: New York

Components: Triphenyl phosphate; Ethyl benzene; Methanol; Methyl methacrylate; 2-Methylpropan-1-ol; Toluene; Xylene; n-Butyl acetate

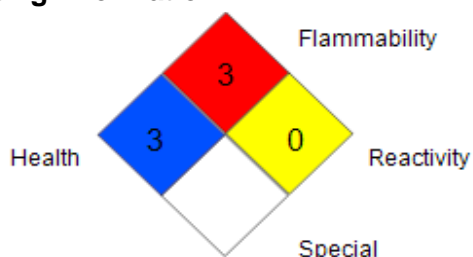
Right-To-Know State List: Pennsylvania

Components: Triphenyl phosphate; Ethyl benzene; Methanol; Methyl methacrylate; 2-Methylpropan-1-ol; Toluene; Xylene; n-Butyl acetate

Right-To-Know State List: Rhode Island

Components: Triphenyl phosphate; Ethyl benzene; Methanol; Methyl methacrylate; 2-Methylpropan-1-ol; Toluene; Xylene; n-Butyl acetate

NFPA Rating Information



HMIS® Rating Information

Health	3
Flammability	3
Physical Hazard	0
Personal Protection	E

SECTION 16: Other information

Hazard statements listed in Chapter 3

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2

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Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
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.