

INEOS Melamines

Safety data sheet in accordance with 2001/58/EC

RESIMENE BM 5905

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Substance key: S300021
Version : 2 - 2 /EU / 19.12.2005

Date of printing : 20.12.05



Harmful

1. Identification of the substance/preparation and company

Trade name

RESIMENE BM 5905

Chemical identification

n-butylated melamine formaldehyde resin

Intended/recommended use:

Binder

Identification of the company

Company:

INEOS Melamines GmbH
Alt Fechenheim 34
60386 Frankfurt am Main

Telephone no. : +49 (0) 69 4109 2319

Information about the substance/preparation:

Tel.: +49 (0) 69-4109-2446

Emergency telephone number:

Europe: +49 (0) 6132 84463

Other countries: +1 352 323 3500

2. Composition/information on ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substance Directive 67/548/EEC:

Butan-1-ol; n-butanol

Concentration : 38 - 42 %

CAS number: 71-36-3

EINECS number: 200-751-6

| R 10 | Xn; R 22 | Xi; R 37/38, 41 | R 67 |

Free formaldehyde

Concentration : < 1 %

CAS number: 50-00-0

EINECS number: 200-001-8

| Carc. Cat. 3; R 40 | T; R 23/24/25 | C; R 34 | R 43 |

Please consult section 16 of this SDS for full text of mentioned Risk-phrases.

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3. Hazards identification

Flammable.
Harmful if swallowed.
Irritating to respiratory system and skin.
Risk of serious damage to eyes.
May cause sensitization by skin contact.

Vapours may cause drowsiness and dizziness.

4. First aid measures

General information

Remove soiled or soaked clothing immediately

After inhalation

Remove the casualty into fresh air and keep him calm.
In the event of symptoms seek medical advice.

After contact with skin

In case of contact with skin wash off immediately with soap and water
Consult a doctor if skin irritation persists.

After contact with eyes

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice

After ingestion

Do not induce vomiting.
Call in a physician immediately and show him the Safety Data Sheet.

Symptoms

Headache
Doziness
Dizziness

Treatment

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

water spray jet
dry powder
foam
carbon dioxide

Extinguishing media that must not be used for safety reasons

Full water jet

Special hazards from the substance itself, its combustion products or from its vapours

In case of fires, hazardous combustion gases are formed:
Formaldehyde vapours
Carbon monoxide (CO)
Nitrogen oxides (NOx)
Ammonia (NH₃)
Combustion gases of organic materials must in principle be graded as inhalation poisons.

Special protective equipment for firefighting

In case of combustion use a suitable breathing apparatus.

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Further information

Large amounts of soot are formed in burning
Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being build up due to heat.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions

Ensure adequate ventilation.
Keep away sources of ignition.

Environmental precautions

Do not allow to enter soil, waterways or waste water canal.
In case of entry into waterways, soil or drains, inform the responsible authorities.

Methods for cleaning up/taking up

Take up with absorbent material (eg sand, kieselguhr, universal binder)
When picked up, treat material as prescribed under heading "Disposal".

Additional information

Information regarding personal protective measures see, section 8.

7. Handling and storage

Handling

Provide good ventilation of working area (local exhaust ventilation if necessary).
During processing and handling of the product, comply with the indicative occupational exposure limit values.

Storage

Keep away from sources of ignition - refrain from smoking.
Avoid flammable gas mixtures
Take precautionary measures against electrostatic loading - earthing necessary during loading operations.
Vapours may form explosive mixtures with air
Observe the general rules of industrial fire protection
Keep container tightly closed and dry in a cool, well-ventilated place
Protect from heat and direct sunlight

8. Exposure controls/personal protection

Exposure limit values - Exposure control

Personal protection

General protective measures

Do not inhale vapours
Avoid contact with eyes and skin

Hygiene measures

Wash hands before breaks and after work.
Do not eat, drink or smoke during work time.
Remove soiled or soaked clothing immediately.
Keep away from foodstuffs and beverages.
Use barrier skin cream.
Observe the usual precautions when handling chemicals.

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Respiratory protection :	Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure
Hand protection :	Nitrile or fluorinated rubber gloves. Consider the porosity and elasticity data of the glove manufacturer and the specific conditions in the work place.
Eye protection :	safety glasses
Skin protection:	protective clothing
Environmental exposure controls:	See the Community Environmental Protection Legislation.

9. Physical and chemical properties

General information:

Appearance:	Thickly viscous
Colour :	colourless, clear
Odour :	sweetish

Important health, safety and environmental information:

Flash point :	32 °C Method : closed cup
Density :	1,02 g/cm ³ (25 °C)
Solubility in water :	virtually insoluble
Solubility/qualitative :	soluble in Alcohols and Ketones, Soluble in aromatic hydrocarbons
Viscosity :	125 - 250 mPa.s (25 °C)

10. Stability and reactivity

Conditions to avoid:

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

Thermal decomposition :

No decomposition if used as prescribed.

Hazardous decomposition products

Formaldehyde
butanol
Nitrous oxides (NO_x)
Carbon monoxide and carbon dioxide
Ammonia

11. Toxicological information

Toxicological (health) effects and possible symptoms after exposure:

Information on the product:

The product was classified on the basis of the calculation procedure of the preparations directive (1999/45/EC).

Irritation is possible by contact of the product with the skin, respiratory organs or the eyes.
Solvent vapours have a narcotic effect if inhaled in high concentrations

Information on the component(s):

Butan-1-ol; n-butanol (CAS number: 71-36-3 , EINECS number: 200-751-6)

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Acute toxicity: LD50-oral, rat = 790 mg/kg

Acute toxicity: inhalation, see TLV, drowsiness and dizziness.

Free formaldehyde (CAS number: 50-00-0 , EINECS number: 200-001-8)

Acute toxicity: LD50-oral, rat = 100 mg/kg

Acute toxicity: LD50-dermal, rabbit = 270 mg/kg

Acute toxicity: LC50-inhalation, rat = 250 - 478 mg/l/4h

Eye irritation: causes severe damage.

Skin irritation: irritant.

Skin sensitization: sensitizing.

Sensitisation by inhalation: negative.

Carcinogenicity: causes cancer in lab animals.

12. Ecological information

Information on the product:

Do not allow to enter soil, waterways or waste water

Information on the component(s):

Butan-1-ol; n-butanol (CAS number: 71-36-3 , EINECS number: 200-751-6)

Fish: LC50, 96h: >100 mg/l

Daphnia: EC50, 48 h; >100 mg/l

The potential to accumulate in biota and pass through the food chain, is low (Log Pow is less than 3)

13. Disposal considerations

Product

Incineration in suitable incineration plant, observing local authority regulations

Uncleaned packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse

14. Transport information

ADR	3 / III RESIN SOLUTION, flammable Special provision 640E	UN number :1866	Hazard no. : 30
RID	3 / III RESIN SOLUTION, flammable Special provision 640E	UN number :1866	Hazard no. : 30
IMDG	3 / III RESIN SOLUTION, flammable	UN number :1866	EMS: F-E, S-E
IATA	3 / III RESIN SOLUTION, flammable	UN number :1866	

Additional information

Dispatch by post: Not permitted

15. Regulatory information

Labelling / classification in accordance with EC directives

Substance classification in accordance with Directive 67/548/EEC and its Amendments and Adaptations.

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Hazard symbols

Xn Harmful

Hazardous component(s) to be indicated on label

Butan-1-ol; n-butanol
Free formaldehyde

R phrases

10 Flammable.
22 Harmful if swallowed.
37/38 Irritating to respiratory system and skin.
41 Risk of serious damage to eyes.
43 May cause sensitization by skin contact.

S phrases

24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39 Wear suitable gloves and eye/face protection.
51 Use only in well-ventilated areas.

Special labelling for certain preparations

Vapours may cause drowsiness and dizziness.

National regulations

Water Hazard Class (Ger.) : 1 (according to VwVwS, 17.05.1999)

16. Other information

Full text of the R-Phrase from section 2:

R 10 Flammable.
R 22 Harmful if swallowed.
R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R 34 Causes burns.
R 37/38 Irritating to respiratory system and skin.
R 40 Limited evidence of a carcinogenic effect.
R 41 Risk of serious damage to eyes.
R 43 May cause sensitization by skin contact.
R 67 Vapours may cause drowsiness and dizziness.

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(||) Denotes a revision from the previous version of this SDS.