The Chemical Company

Safety data sheet
HB100 MIXING CLEAR

1. Substance/preparation and company identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS Number	Content (weight%)
ethylene glycol butyl ether OSHA PEL 50 ppm 240 mg/m3 ACGIH TWA 20 ppm	111-76-2	1 - 10
sec-butyl alcohol OSHA PEL 150 ppm 450 mg/m3 ACGIH TWA 100 ppm	78-92-2	0 - 5

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3. HAZARD IDENTIFICATION

HMIS III RATING
Health: 2¤ Flammability: 2 Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

EMERGENCY OVERVIEW

WARNING
COMBUSTIBLE LIQUID
HARMFUL IF INHALED
CAN CAUSE LIVER DAMAGE
CAN CAUSE KIDNEY DAMAGE
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION
MAY CAUSE PULMONARY EDEMA
INGESTION MAY CAUSE GASTRIC DISTURBANCES

POTENTIAL HEALTH EFFECTS

Primary routes of exposure:
Routes of entry for solids and liquids include eye and skin

contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.
Solvents are absorbed through the skin.

Acute toxicity:
Inhalation may cause CNS depression, blurred vision, dizziness and drowsiness.
Overexposure may cause nausea and vomiting.
Inhalation causes headache and nausea.
Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

Information on: ethylene glycol butyl ether
Because butyl cellosolve is skin absorbed, contact may result in systemic effects. Acute inhalation overexposures have led to changes of the lungs, kidneys, livers, and blood of mice.
Information on: sec-butyl alcohol
Ingestion of sec-butyl alcohol may result in narcosis and possible liver damage. Acute overexposure to sec-butyl alcohol vapors may cause drowsiness, headache, nausea, dizziness, anemia and sensitivity to light.

Irritation:
Skin contact may result in irritation, defatting and dermatitis.
Vapors cause irritation to the respiratory tract and the eyes.
Prolonged inhalation of product vapor can result in irritation of the mucous membranes.

Repeated dose toxicity:
Information on: ethylene glycol butyl ether
Overexposure may cause hemolytic anemia. No significant adverse effects were seen in rats exposed to airborne butyl cellosolve levels of up to 77 ppm for 50 days or rabbits exposed dermally to 150 mg/kg/day for 90 days. Embryotoxicity and malformations occurred among offspring of rats exposed to 100 ppm by inhalation. These effects were accompanied by maternal toxicity.
Information on: sec-butyl alcohol
Chronic overexposure to sec-butyl alcohol vapors may cause drowsiness, headache, nausea, dizziness, low blood red cell count, and sensitivity to light.

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4. FIRST-AID MEASURES

General advice:
Remove contaminated clothing.
Contact the local poison control center or call BASF Emergency Response at 1-800-832-HELP (4357).

If inhaled:
Keep patient calm, remove to fresh air.
If breathing difficulties develop, aid in breathing and seek immediate medical attention.

If on skin:
Wash affected areas with water for at least 15 minutes.

If irritation develops, seek medical attention.

If in eyes:
Flush with copious amounts of water for at least 15 minutes.
Hold eyelids open to facilitate rinsing.
Seek medical attention.

If swallowed:
Rinse mouth and then drink plenty of water.
Do not induce vomiting due to aspiration hazard.
Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.
Immediate medical attention is required.
Ingestion may cause irritation of the gastrointestinal tract.
Aspiration may result in chemical pneumonitis, which may be fatal.

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5. FIRE FIGHTING MEASURES

Flash point: > 142 °F (> 61.1 °C) +/- 3 °F Setaflash Closed Cup (measured)
Lower explosion limit: not available
Upper explosion limit: not available

Suitable extinguishing media:
Dry extinguishing media
Carbon dioxide
Foam

Unsuitable extinguishing media for safety reasons:
Water spray

Hazards during firefighting:
Flammable gases/vapors.
Vapors and/or decomposition products are irritants and/or toxic.
If product is heated above decomposition temperatures, acrid smoke and fumes will be released.

Protective equipment for firefighting:
Wear self-contained breathing apparatus and turn-out gear.

Further information:
Vapors are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition. Flash fire may occur.
Remove product from areas of fire or otherwise cool sealed containers with water in order to avoid pressure build-up due to heat.
Do not flood burning material with water due to potential spreading of fire.
Contain contaminated water/firefighting water.
Run-off water from fire may cause pollution.
Notify proper authorities.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Extinguish sources of ignition nearby and downwind.
Wear suitable personal protective clothing and equipment.
Ensure adequate ventilation.
Avoid prolonged inhalation.
Avoid contact with skin and eyes.

Environmental precautions:
Do not discharge into drains/surface waters/groundwater.
A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities.
Acutely toxic for aquatic organisms.

Cleanup:
Dike spillage.
Place into appropriately labeled waste containers.
Spills should be contained, solidified, and placed in suitable containers for disposal.

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7. HANDLING AND STORAGE

HANDLING

General advice:
Ensure adequate ventilation.
Do not puncture, drop or slide containers.
Use static lines when mixing and transferring material.
Handle and open container with care.
Avoid contact with the skin, eyes and clothing.
WARNING: Empty containers may still contain hazardous residue.
Do not apply to hot surfaces.
Proper ventilation and respiratory protection is required when sanding, flame cutting, welding or brazing coated surfaces.

Protection against fire and explosion:
Use antistatic tools.
Exhaust fans should be explosion proof.
Provide adequate ventilation to remove solvent vapors from lower levels or work areas and to prevent solvent contact with ignition sources.
Sealed containers should be protected against heat as this results in pressure build-up.
Risk of explosion if heated under confinement.
Avoid all sources of ignition: heat, sparks, or open flame.

STORAGE

General advice:
Keep container tightly closed.
Protect from direct sunlight.
Protect from temperatures above 49C/ 120F.
Store protected against freezing.
Consult local fire marshal for storage requirements.

Storage incompatability:
General: Segregate from incompatible substances.
Segregate from oxidizing agents.
Segregate from strong bases.

Segregate from strong acids.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS
See section 2.

ADVICE ON SYSTEM DESIGN
Provide local exhaust ventilation to maintain recommended P.E.L.
General mechanical ventilation should comply with OSHA 1910.94.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection:
Wear respiratory protection if ventilation is inadequate.
Wear NIOSH-certified (or equivalent) organic vapor respirator.
Particulate filters should be added during spray operations.
Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination.
Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:
Use appropriate chemically resistant gloves as determined by an evaluation of glove performance characteristics and the hazards and potential hazards identified, including but not limited to butyl, natural and synthetic rubber, nitrile, or neoprene.

Eye protection:
Tightly fitting safety goggles (chemical goggles).
Wear face shield if splashing hazard exists.

Body protection:
Body protection must be chosen based on activity level and exposure.

General safety and hygiene measures:
Work place should be equipped with a shower and eye wash.
Contact lenses should not be worn.
Remove contaminated clothing.
Contaminated equipment or clothing should be cleaned after each use or disposed of.
Hands and/or face should be washed before breaks and at the end of the shift.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Odour:	solvent-like
Colour:	clear
Boiling range:	not applicable
Vapour pressure:	not available
Weight per gallon:	8.35 lb/gal CALC
Vapour density:	heavier than air
Solids content:	approx. 16 %

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10. STABILITY AND REACTIVITY

Conditions to avoid:
Avoid all sources of ignition: heat, sparks or open flames.
Avoid electrostatic discharge.

Substances to avoid:
Strong bases
Strong oxidizing agents
Strong acids

Hazardous reactions:
This product is chemically stable.

Decomposition products:
Carbon monoxide
Carbon dioxide

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11. TOXICOLOGICAL INFORMATION

No data available.

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12. ECOLOGICAL INFORMATION

No data available.

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13. DISPOSAL CONSIDERATIONS

Waste disposal of substances:
Dispose of in accordance with national, state and local regulations.
The use and processing of this product, or addition of other constituents, may cause it to be considered a hazardous waste.
It is the waste generators responsibility to determine if a particular waste is hazardous under RCRA.
Do not discharge into drains/surface waters/groundwater.
Incinerate or dispose of in a RCRA licensed facility.
Do not incinerate closed containers.

Contaminated packaging:
WARNING: Empty containers may still contain hazardous residue.
Dispose of in accordance with national, state and local regulations.

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14. TRANSPORT INFORMATION

Reference Bill of Lading.

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15. REGULATORY INFORMATION

FEDERAL REGULATIONS

TSCA, US released / listed

SARA 313:

CAS number	Weight%	Chemical name
111-76-2	6.5	ethylene glycol butyl ether
78-92-2	2.8	sec-butyl alcohol

STATE REGULATIONS

State RTK:

CAS Number	Chemical name
7732-18-5	water
489909-5182-P-NLR	Polyurethane resin
111-76-2	ethylene glycol butyl ether
78-92-2	sec-butyl alcohol
25322-69-4	polypropylene glycol
50-00-0	formaldehyde

California Proposition 65 information:
WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

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16. OTHER INFORMATION

Recommended use: FOR INDUSTRIAL USE ONLY.

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