

MATERIAL SAFETY DATA SHEET

acc. to 1907/2006/EG

Version V-I-14

Reviewed on: 17.09.2014

Printing date: 17.09.2014

1. Identification of the substance/mixture and of the company

Product name: HYBRIDIZATION BUFFER
Product number: SFP-U-010
Application of the substance/mixture: Laboratory chemicals
Manufacturer/Supplier/ Information department:

CHIPRON GmbH
Eresburgstrasse 22-23
D-12103 Berlin
Germany
Tel.: +49 (0)30 78799470
FAX.: +49 (0)30 78799499

2. Composition/Information on Ingredients

Chemical characterization

Description: Mixture of the substances listed below with nonhazardous additions.

Hazardous component at a concentration below regulatory threshold limits

Constituent	CAS-Nr.	EG-Nr.	Classification	Concentration
N-Dodecanoyl-N-methylglycine-sodium salt	137-16-6	259-364-6	T, Xi, R23, R38, R41 (acc.to 67/548/EWG) H330, H315, H318 (acc.to 1272/2008 CLP)	< 6 %

Hazardous component

Constituent	CAS-Nr.	EG-Nr.	Classification	Concentration
Formamide	75-12-7	200-842-0	T, R40, R48/22, R61 (acc. to 67/548/EWG) Carc. 2, H351, H360D, H373 (acc. to 1272/2008 CLP)	< 75%

3. Potential hazards

3.1. Classification of the product:

Classification acc. to Regulation (EG) Nr 1272/2008

Carcinogenicity (Cat 2), H351

Reproductive toxicity (Cat 1B), H360D

Specific target organ toxicity- repeated exposure Oral (Cat 2), Blood, H373

Classification acc. to Regulation 67/548/EWG

T Toxic R40, R48/22, R61

3.2. Labelling according to Regulation (EC) No 1272/2008

Pictogram



GHS08

Signal word: Danger

Hazard statements:

H351 Suspected of causing cancer.

H360D May damage the unborn child.

H373 May cause damage to organs (blood) through prolonged or repeated exposure or if swallowed.

Precautionary statement(s)

P201 Obtain special instructions before use.

P281 Use personal protective equipment as required.

P308 + P313 If exposed or concerned: Get medical advice/ attention.

Supplemental Hazards: none

3.3. Additional Comments

Restricted to professional users.

4. First aid measures

General advices:	Consult a physician. Show this safety data sheet to the physician in attendance.
Inhalation:	Move to fresh air. If the affected person is not breathing, give artificial respiration. Consult a physician.
Skin contact:	Wash immediately with copious amount of water and soap and rinse thoroughly. Consult a physician after a severe exposure.
Eye contact:	Flush opened eye for several minutes under running water. Consult a physician if irritation persists.
Ingestion:	Wash out mouth with water. Consult a physician.

5. Firefighting measures

Suitable extinguishing agents:	Use fire fighting measures which best suit the environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific risks in case of fire:	Not known.
Protective equipment:	Wear suitable clothing and breathing protection, avoid contact with skin and eyes, avoid inhalation of explosion and combustion gases.

6. Accidental Release Measures

Personal precautions:	Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Wear respiratory protection. Avoid eye and skin contact.
Environmental precautions: enter	Small amounts of the liquid ought to be diluted with plenty of water. Do not allow to ground water, water course or sewage system.
Methods for cleaning up:	Absorb with liquid binding material (sand, diatomite, acid binders, universal binders,

sawdust). Dispose of contaminated material as waste according to item 13.

7. Handling and storage

7.1. Handling:

Precautions for safe handling: Keep receptacles tightly sealed. Avoid any exposure.
Explosions and fire precaution: No special measures required.

7.2. Storage:

Requirements to be met by storerooms and receptacles: Not required..
Information about storage in one common storage facility: Not required.
Additional information about storage conditions: For long-term storage, keep at -20°C.

8. Exposure Controls And Personal Protection

8.1. Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

8.2. Personal Protection:

General hygiene measures: Keep away from food, drinks and forage.
Wash hands, forearms and face thoroughly after handling chemical products.
Remove potentially contaminated clothing.
Avoid skin and eye contact.
Pregnant women must avoid inhalation and skin contact.

Respiratory Protection: Not required.

Skin Protection: Handle with gloves. Selection of the glove material based on consideration of the penetration times, rates of diffusion and the degradation.

Gloves material: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application..

Penetration time of glove material: The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Use tightly sealed goggles.

9. Physical And Chemical Properties

9.1. General information

Form: fluid
Color: yellow-brownish
Odor: weak characteristic, weak ammonia odor

9.2. Properties

Melting point/melting range: Not determined.
Boiling point/boiling range: Not determined.
Flash point: Not flammable.
Autoignition: No.
Explosion hazard: The product is not explosive.
Density at 20°C: Not determined.
Solubility in water: Completely miscible.

9.3. Content of organic solvents < 75%.

10. Stability And Reactivity

Thermal stability: No decomposition if used according to the specification. Avoid undue heating.
Hazardous reactions: Reacts with bases, oxidizing agents, hydrogen peroxide, iodine, pyridine, sulphur oxides.
Hazardous decomposition products: No data available.

11. Toxicological Information

11.1. Acute toxicity:
LD/LC50-Data relevant for classification:

<i>Formamide</i>	<i>LD50</i>
Oral	5325 mg/kg (rat)
Inhalation	21 mg/l (rat, 4h)
Skin	> 3000 mg/kg (rat)

Skin / Eye irritation:

Skin (rabbit) No skin irritation.
Eye (rabbit) Mild eye irritation.

11.2. Primary irritant effects:

Skin irritation: Prolonged or repeated exposure may cause skin irritation. Components of the product may be absorbed into the body through the skin
Eye irritation: Moderately irritating to eyes.
Sensitization: No sensitizing effects known.
Carcinogenicity Suspected human carcinogens. Carc. 2, Repr. 1B
Germ cell mutagenicity No data available.
Reproductive toxicity May cause adverse reproductive effects - such as birth defects, miscarriages, or Infertility, Reproductive toxic Cat.2 (Repr. Cat. 2)
Aspiration hazard No data available.

Specific target organ toxicity- one-time exposure: No data available.

Specific target organ toxicity- repeated exposure: May cause damage to blood through prolonged or repeated exposure.

11.3. Additional toxicological information:

Assimilation of huge amounts: May cause central nervous system effects, shortness of breath, dizziness, movement disorders, pulmonary oedema, liver and kidney damages.

12. Ecological Information

General Notes: Water hazard class 1 (self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal Consideration

13.1. Product

Recommendation: The product at the provided concentration must not be disposed of together with regular household garbage or via the sewage system. Extensive dilutions of the product can be disposed of along with plenty of water. Dispose of in accordance with local regulations. Do not allow greater amounts to reach sewage system.

13.2. Uncleaned packagings

Recommendation: Disposal according to the official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14. Transport information

Land transport ADR/RID: No regulations.

Maritime transport IMDG: No regulations.

Air transport IATA: No regulations.

15. Regulations

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

National Regulations:

Water hazard class: Water hazard class 1 (self-assessment): slightly hazardous for water.

For this product a chemical safety assessment was not carried out.

16. Additional information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Chipron GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.

DISCLAIMER

For R&D use only. Not for drug, household or other uses.