

STAPLES

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MSDS #: MSDS (ITEM # 17658)

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MATERIAL SAFETY DATA SHEET

According to 91/155 EEC

SECTION 1: PRODUCT IDENTIFICATION

Product: STICK GEL PEN BLUE

MSDS CODE: [ITEM # 17658]

Ink: MIKUNI, JOY BLUE LHF-31F

DATE ISSUED: 2011-4-27

SECTION 2: HAZARDS IDENTIFICATION

Hazard description:



Xi Irritant

N Dangerous for the environment

· Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 22 Harmful if swallowed.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

R 50 Very toxic to aquatic organisms

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Dangerous components:

Name	CAS#	Conc.	R-phrase
Ethylene glycol	107-21-1	5%-10%	Xn; R 22
Polyethylene glycol	25322-68-3	5%-10%	Xn; R 22
Aqueous ammonia	1336-21-6	1%	C N; R 34-50

1,2-benzisothiazolin-3-one

2634-33-5

<0.1%

Xn, Xi, N, R22-38-41-50

SECTION 4: FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion: Induce vomiting immediately by medical personnel. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

Skin Contact: Remove contaminated clothing. Wash skin with plenty of soap and water for at least 15 minutes. If symptoms develop, obtain medical attention.

Eye Contact: Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Specific Hazards: Containers may explode when involved in a fire.

Extinguishing Media: Dry chemical, foam or carbon dioxide may be used.

Unsuitable Extinguishing media: No information available.

Protective Equipment for: Wear full protective clothing and self-contained breathing apparatus. Firefighters complying with an approved standard with full face-piece operated in the pressure demand or other positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Observe all relevant local and international regulations.

Personal Protection: Wear appropriate personal protective equipment.

Cleaning up Methods: Remove all sources of ignition. Use non-sparking tools and equipment.

Avoid release to the environment. Absorb spillage with an inert material, then place in a chemical waste container for later safe disposal.

Earth may be shoveled to contain spillage and to avoid contamination of sewers and water courses.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Keep container closed. Only use in well ventilated areas. Wash thoroughly after handling.

Handling temperature: Below 30°C and above 0 °C.

Storing: Keep container tightly closed until ready for use. Store in a cool-dry and well-ventilated place away from acids, and oxidizing materials.

Storing temperature: Below 30 °C and above 0 °C.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form: Fluid

Color: According to product specification

Odor: Characteristic

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

Flash point: Undetermined.

Ignition temperature: Undetermined.

Self-igniting: Product is not self-igniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/ Vapor mixtures are possible.

Explosion limits:

Lower: Undetermined.

Upper: Undetermined.

Vapor pressure at 20°C: Undetermined.

Density at 20°C: Not determined.

Solubility in / Miscibility with water: Miscible at any rate

Viscosity:

Dynamic at 20°C: Undetermined.

Solvent content:

Organic solvents: Undetermined.

Solids content: Undetermined.

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Heat, flames, ignition sources, and incompatibles.

Materials to Avoid: Strong acids, bases, strong oxidizing agents.

Hazardous Decomposition: Carbon dioxide and carbon monoxide may form when heated to

Products decomposition..

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: LD50: 4,700mg/kg, Rat (as Ethylene glycol) LD50: 4,920µ l /kg, Rat (as Triethanolamine) Ingestion may cause central nervous system depression, vomiting, headaches, lowered blood pressure, stupor, collapse, and unconsciousness with convulsions.

Acute Inhalation Toxicity: Vapor inhalation may cause nausea, vomiting, dizziness, drowsiness, pulmonary edema, and central nervous system depression.

Acute Dermal Toxicity: LD50: 9,530mg/kg, Rabbit (as Ethylene glycol) LD50: >16ml/kg, Rat (as Triethanolamine) Prolonged/repeated contact may cause defating of the skin which can lead to dermatitis.

Skin Irritation: May cause skin irritation. It can be absorbed through skin.

Eye Irritation: May cause eye irritation.

Respiratory Irritation: May cause respiratory irritation.

Sensitization: Not available

Mutagenicity: Not available

Carcinogenicity: Not available

SECTION 12: ECOLOGICAL INFORMATION

Further Information: There is no data available for this product.

SECTION13: DISPOSAL CONSIDERATIONS

Product:

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

Sea Transport

IMDG

UN-No: Not applicable

Class: Not applicable

SECTION 15: REGULATORY INFORMATION

Labeling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



Xn Harmful

N Dangerous for the environment

· **Risk phrases:**

R22 Harmful if swallowed.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

68 Possible risk of irreversible effects.

· **Safety phrases:**

S2 Keep out of the reach of children

S24 Avoid to contact the skin

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

· **Waterhazard class:**

Water hazard class 3 (Self-assessment): extremely hazardous for water.

SECTION 16: OTHER INFORMATION

All information contained in this Material Safety Data Sheet is provided to the best of the knowledge. No warranty is made with respect to this information, expressed or implied, including warranties of merchantability or fitness for a particular purpose. Users are responsible for verifying the information under their own operating conditions to determine whether the products listed in the MSDS are suitable for their intended use. The information contained herein is confidential, intended solely for the user's internal use and may not be provided to any third parties. Users are responsible for compliance with all laws and regulations as may be required by their receipt of the information and use of the products provided with this MSDS.

This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and its subsequent amendments, and Commission Directive 91/155 EEC