Created: Mar. 10, 1995 Revised: Dec. 28, 2004

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND MANUFACTURER

Product Name: 3.3 mol/L KCI Filling Solution for Reference Electrode

Manufacturer: DKK-TOA CORPORATION

Address: 29-10, 1-Chome, Takadanobaba, Shinjuku-ku, Tokyo 169-8648 Japan

Department: Sensor Technology Dept.

Phone: +81-4-2957-6154

Fax: +81-4-2957-6864

2. COMPOSITION, CONSTITUENTS

FÖRM:

Solution, single constituent

Chemical name	Potassium chloride
Content	25%
Chemical formula	KCI
Exiting chemical substances (MITI)	1-228
CAS No.	7447-40-7

3. HAZARD IDENTIFICATION

Critical hazard information

Hazardous effect to human health: None

Environmental impact: None

INDIC

Physical or chemical hazard:

No problem, Nonflammable

Specific hazard identification

Hazard Class: Not listed

4. FIRST AID MEASURES

Skin contact:

Rinse the skin with a large amount of water.

Eye contact:

Immediately flush out the eye well with a large amount of water.

Ingestion:

Give a large amount of water. Get medical treatment, if necessary.

5. FIREFIGHTING MEASURES

Firefighting:

Nonflammable

Extinguish media:

In case of peripheral fire, immediately move the container to a place of safety.

Otherwise, spray water on the container and its surroundings to cool down.

PRODUCT NAME 33 M KCL FILLING SOLUTION FOR REFERENCE ELECTRODE

6. ACCIDENTAL RELEASE MEASURES

Human:

Irritant to wounded skin and fingers.

Environment:

Not specifically directed.

Removal:

Wipe out the material with paper or cloth. Wash the spill site well with water.

7. HANDLING AND STORAGE

Handling: Wear protective glasses, rubber gloves, or other protective equipment if necessary. The

material has no toxicity, but is irritant to wounded skin and fingers.

Storage:

Store in a cool, dark place.

Suitable container: made of glass or plastic

8. EXPOSURE CONTROL/PROTECTION

Equipment:

None

Control concentration:

Not established

Threshold limit value:

Not established

Protective equipment

Hand:

Wear appropriate protective equipment, if necessary.

Eyes:

Wear appropriate protective equipment, if necessary.

Skin, body:

Wear appropriate protective equipment, if necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Transparent, colorless solution.

Odor:

None

pH:

about 7

Physical property changes points

Boiling point:

about 100°C

Melting point:

about 0°C

Flash point:

None

Explosibility

None

Specific gravity:

about | g/mL

Solubility:

Miscible with water

10. STABILITY/REACTIVITY

Stability / Reactivity:

Normally stable.

Harmful decomposition product:

None

11. TOXICOLOGICAL INFORMATION (including cases and epidemiological information)

Acute toxicity:

No data

Local effect:

Temporarily irritant to eyes.

Sensitizing potential:

No data

Chronic toxicity:

No data

Carcinogenicity:

No data

12. ECOLOGICAL INFORMATION

Persistence / Decomposition:

No persistence

Accumulativeness:

No data

Ecotoxicity:

No data

13. DISPOSAL CONSIDERATION

Waste:

Dilute the material with a large amount of water before disposal.

Contaminated bottle:

Clean out the contents and dispose of the bottle or container, following the

instructions of your local government.

14. TRANSPORT CONSIDERATION

UN identification number:

Not listed

Notes for transport:

Ensure that there is no leakage. Avoid dropping and damaging the bottle

of the material when the material is loaded onto a truck or the like. Be

sure to prevent collapse of cargo piles. Avoid direct sunlight.

15. COMPLIANCE

Be sure to handle the material in compliance with environmental, safety and health laws and regulations of your country and local government.

16. OTHER INFORMATION

Reference:

- (1) 14504 no Kagaku Shouhin, The Chemical Daily Co., Ltd. (2004)
- (2) Kagaku Dai-jiten, Kyoritsu Shuppan (2001)

COVERAGE

- The information described above is believed to be correct to the best of our knowledge, but is not necessarily inclusive. Due care should be exercised in handling the material.
- · All data above are just information, but not assured.
- All of the notes are for normal handling. In cases of special handling, take safety measures suitable for the use or application.