

Material safety data sheet

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Catalog Name:

Distilled water

Catalog Numbers:

37630

Company Identification:

Junsei Chemical Co.,Ltd.

4-16, 4-Chome, Nihonbashi-Honcho,

Tokyo, 103-0023 Japan

Phone: +81-3-3270-5411 FAX: +81-3-3241-8298

Web: <http://www.junsei.co.jp/>

E-mail: eihon@junsei.co.jp

EMERGENCY TELEPHONE NUMBER: +81-489-86-6161(Reagent Chemical Div.)
(Japanese language only)

CREATION DATE: Jly 2 2001

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: water

SYNONYMES: DIHYDROGEN OXIDE; DISTILLED WATER; HYDROGEN OXIDE (H2O); DE-IONIZED WATER; DEIONIZED WATER; DRIWATER; H2O; OHS90000; RTECS ZC0110000

CAS NUMBER: 7732-18-5

EC NUMBER (EINECS): 231-791-2

JAPAN NUMBER (ENCS): unlisted

PERCENTAGE: 100%

SECTION 3 HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=0 FIRE=0 REACTIVITY=0

EMERGENCY OVERVIEW:

COLOR: colorless

PHYSICAL FORM: liquid

ODOR: odorless

MAJOR HEALTH HAZARDS: No significant target effects reported.

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: no information on significant adverse effects

LONG TERM EXPOSURE: no information is available

SKIN CONTACT:

SHORT TERM EXPOSURE: no information on significant adverse effects

LONG TERM EXPOSURE: no information is available

EYE CONTACT:

SHORT TERM EXPOSURE: no information on significant adverse effects

LONG TERM EXPOSURE: no information is available

INGESTION:

SHORT TERM EXPOSURE: no information on significant adverse effects

LONG TERM EXPOSURE: no information is available

CARCINOGEN STATUS:

OSHA: No

NTP: No

IARC: No

SECTION 4 FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Get medical attention.

SKIN CONTACT: Wash exposed skin with soap and water.

EYE CONTACT: Flush eyes with plenty of water.

INGESTION: If a large amount is swallowed, get medical attention.

SECTION 5 FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Negligible fire hazard.

EXTINGUISHING MEDIA: Use extinguishing agents appropriate for surrounding fire.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

FLASH POINT: No data available.

HAZARDOUS COMBUSTION PRODUCTS:

Thermal decomposition products or combustion: None known.

SECTION 6 ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE:

Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

SECTION 7 HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards. Store in a tightly closed container. Protect from freezing. Keep separated from incompatible substances.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:

WATER:

No occupational exposure limits established.

VENTILATION: Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Eye protection not required under normal conditions.

CLOTHING: Protective clothing is not required under normal conditions.

GLOVES: Protective gloves are not required under normal conditions.

RESPIRATOR: No respirator is required under normal conditions of use. Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

For Unknown Concentrations or Immediately Dangerous to Life or Health -

Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full facepiece.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: liquid

APPEARANCE: clear

COLOR: colorless

ODOR: odorless

MOLECULAR WEIGHT: 18.02

MOLECULAR FORMULA: H₂O

BOILING POINT: 212 F (100 C)

FREEZING POINT: 32.0 F (0 C)

VAPOR PRESSURE: 17.5 mmHg @ 20 C

VAPOR DENSITY: Not available

SPECIFIC GRAVITY (water=1): 1
WATER SOLUBILITY: 100%
PH: 7
VOLATILITY: 100%
ODOR THRESHOLD: Not available
EVAPORATION RATE: Not available
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: None reported.

INCOMPATIBILITIES: No data available.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products or combustion: None known.

POLYMERIZATION: Will not polymerize.

SECTION 11 TOXICOLOGICAL INFORMATION

WATER:

TOXICITY DATA:

333 gm/kg oral-infant TDLo; 42.86 gm/kg oral-man TDLo; 180 gm/kg/28 hour(s)
rectal-woman LDLo; >90 ml/kg oral-rat LD50; 190 gm/kg intraperitoneal-mouse
LD50; 25 gm/kg intravenous-mouse LD50; 629 gm/kg oral-dog LDLo; 320 gm/kg
oral-cat LDLo; 368 gm/kg oral-rabbit LDLo; 13 gm/kg intravenous-rabbit LDLo;
450 gm/kg rectal-rabbit LDLo; 429 gm/kg oral-guinea pig LDLo; 3502 gm/kg/2
week(s) intermittent oral-rabbit TDLo

ACUTE TOXICITY LEVEL: Insufficient Data.

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE:

WATER: No adverse effects expected.

CHRONIC EXPOSURE:

WATER: No data available.

SKIN CONTACT:

ACUTE EXPOSURE:

WATER: No adverse effects expected.

CHRONIC EXPOSURE:

WATER: No data available.

EYE CONTACT:

ACUTE EXPOSURE:

WATER: No adverse effects expected.

CHRONIC EXPOSURE:

WATER: No data available.

INGESTION:

ACUTE EXPOSURE:

WATER: No adverse effects expected.

CHRONIC EXPOSURE:

WATER: No data available.

SECTION 12 ECOLOGICAL INFORMATION

Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

SECTION 14 TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: No classification assigned.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS: No classification assigned.

LAND TRANSPORT ADR/RID: No classification assigned.

AIR TRANSPORT IATA/ICAO: No classification assigned.

MARITIME TRANSPORT IMDG: No classification assigned.

SECTION 15 REGULATORY INFORMATION

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):
Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40):
Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):
ACUTE: No
CHRONIC: No
FIRE: No
REACTIVE: No
SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.

STATE REGULATIONS:
California Proposition 65: Not regulated.

CANADIAN REGULATIONS:
WHMIS CLASSIFICATION: Not determined.

EUROPEAN REGULATIONS:
EC CLASSIFICATION (CALCULATED): Not determined.

NATIONAL INVENTORY STATUS:
U.S. INVENTORY (TSCA): Listed on inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

SECTION 16 OTHER INFORMATION
