1. Product and company identification

Product identifier

Trade name: 636K17 - OTTO BOCK Light Putty

Relevant identified uses of the substance or mixture and uses advised against

General use: Filling compound for orthopedic procedures.
Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: Otto Bock Health Care
Street/POB-No.: 3820 W. Great Lakes Drive
Postal Code, city: Salt Lake City, UT 84120
USA
WWW: www.ottobockus.com
Telephone: +1 (801) 956-2400
Telefax: +1 (801) 956-2401
Dept. responsible for information:
Quality Department,
Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time), Email:
USRegulatory@ottobock.com

Emergency phone number

CHEMTREC, Telephone: +1 (800) 424-9300

Transport:
CONSULTANK Lutz Harder GmbH (Contract QUALI003)
Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)

2. Hazards identification

Emergency overview

Appearance: Form: liquid, viscous; viscous liquid
Color: light gray
Odor: characteristic

Classification: Flammable Liquid - Category 2; Skin Irritation - Category 2; Eye Irritation - Category 2A; Specific Target Organ Toxicity (Single Exposure) - Category 3; Specific Target Organ Toxicity (Repeated Exposure) - Category 1;

Hazard symbols:

Signal word: **Danger**

Hazard statements: Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Avoid breathing vapors.
Wear protective gloves/protective clothing/eye protection/face protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical advice/attention if you feel unwell.
Store in a well-ventilated place. Keep container tightly closed.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

The vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars.
Potentially explosive vapor/air mixtures may form.
Can damage your health.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Filling compound on the basis of unsaturated polyester resins dissolved in styrene.

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 100-42-5	Styrene	25 - 50 %	Flammable Liquid - Category 3. Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Reproductive toxicant - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Specific Target Organ Toxicity (Repeated Exposure) - Category 1. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 3.
CAS 38668-48-3	1,1'-(p-Tolylimino) dipropan-2-ol	< 1 %	Acute Toxicity - oral - Category 2. Eye Irritation - Category 2A. Aquatic toxicity - acute - Category 3. Aquatic toxicity - chronic - Category 3.
CAS 75-28-5	Isobutane	< 1 %	Flammable Gas - Category 1. Compressed Gas.
CAS 108-88-3	Toluene	< 1 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Reproductive toxicant - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Specific Target Organ Toxicity (Repeated Exposure) - Category 2. Aspiration Toxicity - Category 1.
CAS 67-56-1	Methanol	< 1 %	Flammable Liquid - Category 2. Acute Toxicity - oral - Category 3. Acute Toxicity - dermal - Category 3. Acute Toxicity - inhalative - Category 3. Specific Target Organ Toxicity (Single Exposure) - Category 1.

4. First aid measures

General information: Immediately remove all contaminated clothing. Wash contaminated clothing prior to re-use.

Seek medical assistance when anyone has symptoms apparently due to inhalation, swallowing or contact with skin or eyes.
Never give anything by mouth to an unconscious person.
Position and transport victim on their side. In case of respiratory distress, bring into semi-upright, seated position.

In case of inhalation: Move victim to fresh air, provide oxygen as needed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
Do not allow victim to become chilled. Keep victim warm. Keep airway open. Consult physician.

Following skin contact: Clean with plenty of water. If possible, also wash with polyethylene glycol 400. Do not use solvents or thinners.
Seek medical treatment in case of troubles.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult physician.

After swallowing: Do not induce vomiting. Rinse mouth with water. Immediately get medical attention.
Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Irritant. Causes damage to organs through prolonged or repeated exposure.
In case of inhalation/After resorption: central nervous system depression.
Symptoms: shortage of breath, drowsiness, headache, dizziness, fatigue, unconsciousness.
Reaction time and coordination may be impaired.
If higher concentrations occur: Pulmonary edema is possible.
Other symptoms: nausea, Sweating, Mucous membrane irritation, cough, vomiting.
Symptoms may occur with delay.

Information to physician

Symptoms of poisoning can only emerge after several hours; medical supervision is therefore essential for at least 48 hours.
In case of swallowing, gastric irrigation with activated carbon as an additive.

5. Fire fighting measures

Flash point/flash point range:
50 °F

Auto-ignition temperature: not self-igniting

Suitable extinguishing media:
Water fog, foam, dry chemical powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:
strong water jet

Specific hazards arising from the chemical

Highly flammable liquid and vapor.
Polymerization along with heat production.
The vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars. Potentially explosive vapor/air mixtures may form.
In case of fire may be liberated: nitrogen oxides (NOx), hydrogen cyanide, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Use a breathing apparatus independent of the ambient air (isolated apparatus) and a full protection outfit (suit) against chemicals.

Additional information: Do not breathe fumes.
You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

6. Accidental release measures

Personal precautions: Eliminate all ignition sources if safe to do so.
Do not breathe vapors. Avoid contact with the substance.
Wear protective equipment. Keep unprotected people away.
Use a breathing protection against vapors/aerosol.

Environmental precautions:

Do not allow to enter drains, surface waters, basements or pits.
Prevent environmental discharge consistent with regulatory requirements.

Methods for clean-up: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Provide adequate ventilation.

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.

7. Handling and storage

Handling

Advices on safe handling: Do not breathe vapors.
Avoid contact with skin and eyes.
Provide good ventilation and/or an exhaust system in the work area.
Wear protective equipment.

Precautions against fire and explosion:

Keep away from sources of ignition. - No smoking.
Take precautionary measures against static discharges.
The vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars. Potentially explosive vapor/air mixtures may form.

Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.
Keep container dry. Keep away from heat.
Keep only in the original container.
Protect from direct sunlight.
Provide room air exhaust at ground level.

Hints on joint storage: Do not store together with organic peroxides.
keep away from radical former, alcohols, acids, alkalis, amines and oxidizing agents.
Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
100-42-5	Styrene	OSHA: Ceiling	200 ppm
		USA: ACGIH: STEL	170 mg/m³; 40 ppm
		USA: ACGIH: TWA	85 mg/m³; 20 ppm
		USA: NIOSH: STEL	425 mg/m³; 100 ppm
		USA: NIOSH: TWA	215 mg/m³; 50 ppm
		USA: OSHA: TWA	100 ppm
75-28-5	Isobutane	USA: ACGIH: TWA	2370 mg/m³; 1000 ppm
		USA: NIOSH: TWA	1900 mg/m³; 800 ppm
108-88-3	Toluene	OSHA: Ceiling	300 ppm
		USA: ACGIH: TWA	75 mg/m³; 20 ppm
		USA: NIOSH: STEL	560 mg/m³; 150 ppm
		USA: NIOSH: TWA	375 mg/m³; 100 ppm
		USA: OSHA: TWA	200 ppm
67-56-1	Methanol	USA: ACGIH: STEL	328 mg/m³; 250 ppm
		USA: ACGIH: TWA	262 mg/m³; 200 ppm
		USA: NIOSH: STEL	325 mg/m³; 250 ppm
		USA: NIOSH: TWA	260 mg/m³; 200 ppm
		USA: OSHA: TWA	260 mg/m³; 200 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
100-42-5	Styrene	USA: ACGIH-BEI, blood	0.2 mg/L	Styrene in venous blood	end of exposure or end of shift
		USA: ACGIH-BEI, urine	400 mg/g creatinine	Mandelic acid + Phenylglyoxylic acid	end of exposure or end of shift
108-88-3	Toluene	USA: ACGIH-BEI, blood	0.02 mg/L	Toluene in blood	Prior to last shift of workweek
		USA: ACGIH-BEI, urine	0.03 mg/L	Toluene in urine	end of exposure or end of shift
		USA: ACGIH-BEI, urine	0.3 mg/g creatinine	o-Cresol in urine	end of exposure or end of shift
67-56-1	Methanol	USA: ACGIH-BEI, urine	15 mg/L	Methanol	end of exposure or end of shift

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.
Keep away from sources of ignition. - No smoking.
Take precautionary measures against static discharges.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection

Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010. OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2003.

Skin protection
Wear suitable protective clothing.

protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Fluororubber (Viton)
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection:
Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

Use combination filter type A/P according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:

Do not breathe vapor or spray. Avoid contact with skin and eyes.
Take off immediately all contaminated clothing.
Wash hands before breaks and after work.
When using do not eat, drink or smoke.
Safety shower and eye wash station should be easily accessible to the work area.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Form: liquid, viscous; viscous liquid Color: light gray
Odor:	characteristic
Odor threshold:	no data available
pH value:	not determined
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	293 °F
Flash point/flash point range:	50 °F
Evaporation rate:	no data available
Flammability:	no data available
Explosion limits:	LEL (Lower Explosion Limit): (Styrene) 1.20 Vol-% UEL (Upper Explosive Limit): (Styrene) 8.90 Vol-%
Vapor pressure:	at 68 °F: 6 hPa
Vapor density:	no data available
Density:	at 68 °F: 0.71 g/mL
Water solubility:	immiscible resp. slightly miscible
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	no data available
Viscosity, dynamic:	not determined
Viscosity, kinematic:	not determined
Explosive properties:	Product is not explosive. Potentially explosive vapor/air mixtures may form.
Ignition temperature:	896 °F
Solvent content:	27 %
Additional information:	Vapor density: not determined

10. Stability and reactivity

Reactivity: Highly flammable liquid and vapor.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions
Polymerization along with heat production.
The vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars. Potentially explosive vapor/air mixtures may form.

Conditions to avoid: Keep away from heat.

Incompatible materials: Watch for exothermic reactions with peroxides.
keep away from radical former.
Reacts with alcohols, acids, alkalis, amines.

Hazardous decomposition products:
In case of fire may be liberated: nitrogen oxides (NOx), hydrogen cyanide, carbon monoxide and carbon dioxide.

Thermal decomposition: no data available

11. Toxicological information

Toxicological tests

Toxicological effects: Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.

Eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) -
Category 1 = Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard: Lack of data.

In case of inhalation: harmful
Higher doses may lead to a narcotic effect.

Following skin contact: irritant

After eye contact: irritant

Symptoms

In case of inhalation: central nervous system depression.
Symptoms: shortage of breath, drowsiness, headache, dizziness, fatigue, unconsciousness.
Reaction time and coordination may be impaired.
If higher concentrations occur: Pulmonary edema is possible.
Other symptoms: nausea, Sweating, Mucous membrane irritation, cough, vomiting.
Symptoms may occur with delay.

In case of ingestion: If swallowed or in the event of vomiting, risk of entering the lungs.
Can damage your health.

General remarks

Styrene:
LD50, Rat, oral: >2000 mg/kg
LD50, Rat, dermal: >2000 mg/kg (OECD 402)
LC50, Rat, inhalative: 11,8 mg/L/4h
LC50, Mouse, inhalative: 9,5 mg/L/4h
Affects the central nervous system, possible disturbances from: 200 ml/m³.
Chronic uptake results in damage of: nervous system, lung.

Not known to cause sensitization.

12. Ecological information

Ecotoxicity

Aquatic toxicity:

Styrene:
Algae toxicity::
EC50 Selenastrum capricarnotum: 1,4 mg/L/72h.
Daphnia toxicity:
EC50 Daphnia magna: 4,7 mg/L/48h (OECD 202).
Fish toxicity:
LC50 Lepomis macrochirus (bluegill): 25 mg/L/96h.
LC50 Pimephales promelas: 29 - 59 mg/L/96h.
LC50 Poecilia reticulata: 75 mg/L/96h.
Source: IUCLID.

Effects in sewage plants:

Styrene:
Bacteria toxicity:
EC50 Pseudomonas putida: >72 mg/L/16h
EC50 activated sludge : 500 mg/L/0,5h (ISO 8192-1986 E)
Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

Mobility in soil

no data available

Persistence and degradability

Further details:

Styrene:
Biodegradation: 71 %/ 28 d.
Product is readily biodegradable.
Does not dissolve in water. Floats on water surface.

Additional ecological information

Volatile organic compounds (VOC):
28.03 % by weight = 199 g/L

General information: Do not allow to penetrate into soil, waterbodies or drains.

13. Disposal considerations

Product

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Contaminated packaging

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

14. Transport information

USA: Department of Transportation (DOT)

Identification numbers:	UN1993
Proper shipping name:	UN 1993, flammable liquids, n.o.s. (Styrene and Isobutane)
DOT hazard class or division:	3
PG:	II
Label codes:	3
Symbols:	G
Special provisions:	IB2, T7, TP1, TP8, TP28
Packaging - Exceptions:	150
Packaging - Non-bulk:	202
Packaging - Bulk:	242
Quantity limitations - Passenger aircraft / rail:	5 L
Quantity limitations - Cargo only:	60 L
Vessel stowage - Location:	B

Sea transport (IMDG)

UN number:	UN 1993
Proper shipping name:	UN 1993, FLAMMABLE LIQUID, N.O.S. (Styrene and Isobutane)
IMDG:	Class 3, Subrisk -
Packing Group:	II
EmS:	F-E, S-E
Special provisions:	274
Limited quantities:	1 L
EQ:	E2
Contaminated packaging - Instructions:	P001
Contaminated packaging - Provisions:	-
IBC - Instructions:	IBC02
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T7
Tank instructions - Provisions:	TP1, TP8, TP28
Stowage and handling:	Category B.
Properties and observations:	-
Marine pollutant:	no
Segregation group:	none

Air transport (IATA)

UN/ID number:	UN 1993
Proper shipping name:	UN 1993, FLAMMABLE LIQUID, N.O.S. (Styrene and Isobutane)
ICAO/IATA:	Class 3
PG:	II
Hazard:	Flamm. liquid
EQ:	E2
Passenger Ltd.Qty.:	Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger:	Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo:	Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special Provisioning:	A3
ERG:	3H

15. Regulatory information

National regulations - U.S. Federal Regulations

Styrene:
TSCA Inventory: listed
TSCA HPVC: not listed
Carcinogen Status:
IARC Rating: Group 2B
OSHA Carcinogen: not listed
NTP Rating: listed
Clean Air Act:
Hazardous Air Pollutants: Code XOV
SOCMI Chemical: yes
Clean Water Act:
Hazardous Substances: RQ 1000 lbs.
Other Environmental Laws:
CERCLA: RQ 1000 lbs.
RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 1, 5
SARA Title III Section 313, Toxic Release: Conc. 0.1% / Threshold Standard
NIOSH Recommendations:
Occupational Health Guideline: 0571

1,1'-(p-Tolylimino)dipropan-2-ol:
TSCA: listed
TSCA Inventory: listed
TSCA HPVC: not listed

Isobutane:
TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f
NIOSH Recommendations:
Occupational Health Guideline: 0350*

Toluene:
TSCA Inventory: listed
TSCA HPVC: not listed
Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Clean Air Act:
Hazardous Air Pollutants: Code XOV
SOCMI Chemical: yes
Clean Water Act:
Hazardous Substances: RQ 1000 lbs.
Priority Pollutant: yes
Other Environmental Laws:
CERCLA: RQ 1000 lbs.
RCRA Hazardous Wastes: Code U220
RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 2, 5
SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard
NIOSH Recommendations:
Occupational Health Guideline: 0619

Methanol:

TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
  Hazardous Air Pollutants: Code XOV
  SOCMI Chemical: yes
Other Environmental Laws:
  CERCLA: RQ 5000 lbs.
  RCRA Hazardous Wastes: Code U154
  SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard
NIOSH Recommendations:
  Occupational Health Guideline: 0397

National regulations - U.S. State Regulations

Styrene:

Delaware Air Quality Management List:
DRQ: 1000 - RQ State: Federal Regulations Apply
Idaho Air Pollutant List:
Title 585 -- AAC: 1 -- EL: 6.67 -- WEL: - Title 586 -
Maine Hazardous Air Pollutants:
Me 2005: HAP - Hap Rpt: 2000
Massachusetts Haz. Substance codes: 1,2,4,5,6,9 *E*C* F7 F8
Michigan Critical Material:
Note: 2 - CMR#: 27 - Parameter#: 00100-42-5 -
Annual Usage Parameter: 100
Minnesota Haz. Substance:
Codes: ANO -- Ratings: 9.63 -- Status: Air Pollutant. Carcinogen. Title III. TRI.
New Jersey RTK Hazardous Substance:
DOT 2055 - Sub No.: 1748 - TPQ: -
New York List of Hazardous Substances:
RQ -- Air: 1000 - RQ -- Land: 1 - Note: No Note Associated with this chemical.
Pennsylvania Haz. Substance code: E
Washington Air Contaminant:
TWA: 50 ppm / 215 mg -- STEL: 100 ppm / 425 mg

Isobutane:

California Proposition 65 code: -
Delaware Air Quality Management List:
DRQ: F 1000** - RQ State: State requirements differs from Federal
Massachusetts Haz. Substance codes: 6
New Jersey RTK Hazardous Substance:
DOT: 1969 - Sub No.: 1040 - TPQ: -
Pennsylvania Haz. Substance code: -

Toluene:

California Proposition 65 code: D
Delaware Air Quality Management List:
DRQ: 1000 - RQ State: Federal Regulations Apply
Idaho Air Pollutant List:
Title 585: AAC: 18.75 - EL: 25 - OEL: 375 - Title 586: -
Maine Hazardous Air Pollutants:
Me 2005: HAP - Hap Rpt: 2000
Massachusetts Haz. Substance codes: 2,4,5,6 F7 F8 F9
Michigan Critical Material:
Note: -
- CMR: 32 - Parameter: 00108-88-3 - Annual Usage Parameter: 100
Minnesota Haz. Substance:
Codes: ANO - Ratings: 8.64
- Status: Air Pollutant Title III. TRI. Water Pollutant
New Jersey RTK Hazardous Substance:
DOT: 1294 - Sub No.: 1866 - TPQ: -
New York List of Hazardous Substances:
RQ-Air: 1000 - RQ-Land: 1 - Note: No Note Associated with this chemical.
Pennsylvania Haz. Substance code: E
Washington Air Contaminant:
TWA: 100 ppm - 375 mg - STEL: 150 ppm - 560 mg
California Proposition 65: developmental
Rhode Island HSL: listed

Methanol:

California Proposition 65 code: -
Delaware Air Quality Management List:
DRQ: 5000 - RQ State: Federal Regulations Apply
Idaho Air Pollutant List:
Title 585: AAC: 13 - EL: 17,3 - OEL: 260 - Title 586: -
Main Hazardous Air Pollutants:

National regulations - Great Britain

Hazchem-Code: •3YE

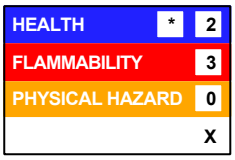
16. Other information

Text for labeling: Contains 25 - 50 % Styrene, < 1 % 1,1'-(p-Tolylimino)dipropan-2-ol, < 1 % Isobutane, < 1 % Toluene, < 1 % Methanol. Safety data sheet available on request.

Hazard rating systems:

NFPA Hazard Rating:
Health: 2 (Moderate)
Fire: 3 (Serious)
Reactivity: 0 (Minimal)

HMIS Version III Rating:
Health: 2 (Moderate) - Chronic effects
Flammability: 3 (Serious)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor



Reason of change: Changes in section 14: IMDG 2015
Date of first version: 10/26/1994

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.