

Emergency folder**4-Nitroquinoline N-oxide****CAS-no:** 56-57-5**Synonyms:** 4-NQO**Description:** Skin and lung tumor initiator under experimental conditions.**Storage:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: -20 °C**Hazards identification:** Use with caution, Risk to man and the environment and also may **cause cancer**.**Handling:** Avoid exposure - obtain special instructions before use. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection**First aid measurements:****If inhaled:** If breathed in, move person into fresh air.**In case of skin contact:** Wash off with soap and plenty of water.**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes.**If swallowed:** Never give anything by mouth to person. Rinse mouth with water. Consult a physician.**Protection:****Hand protection:** Handle with gloves.**Eye protection:** Safety glasses with side-shields**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use virkon to neutralize activity.

More information at: <http://www.aniara.com/pdf/MSDS-APPC-4NQO.pdf>

Emergency information

Acrylamide (Sigma Aldrich A9099)

Synonyms: Acrylic acid amide 2-Propenamide

CAS-no: 79-06-1

Description:

Bio-Rad's acrylamide/bis solutions are made from 99.9% pure acrylamide and bis-acrylamide and are available in two concentrations, 30% and 40%, and three different crosslinker ratios, 19:1, 29:1 and 37.5:1. Acrylamide/bis solutions are provided ready to use and come with instructions. High-purity reagents and carefully controlled manufacturing conditions allow acrylamide/bis solutions to be stable for 1 year at 4 °C.

Hazards identification:

Toxic if swallowed.

May cause genetic defects.

May cause cancer.

Suspected of damaging fertility.

Causes damage to organs through prolonged or repeated exposure.

Harmful in contact with skin.

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction

First aid measurements:

IF SWALLOWED: DO NOT INDUCE VOMITING. Call for medical help immediately. Consult a physician.

IF BREATHED IN: Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration. After inhalation Supply fresh air or oxygen; call for doctor.

IN CASE OF SKIN CONTACT: After skin contact immediately wash with water and soap and rinse thoroughly.

IN CASE OF EYE CONTACT: Flush eyes with water for at least 15 minutes as a precaution and consult a physician.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Emergency folder

Actinomycin D (Sigma Aldrich, Product no: A9415)

CAS-no / EC-no: 50-76-0 / 200-063-6

Synonyms: Dactinomycin, Actinomycin IV, Actinomycin C₁, Cosmegen

Description:

Actinomycin D is a polypeptide that binds to DNA and thereby inhibits transcription, replication and cell proliferation.

Hazards identification:

Very toxic/lethal if swallowed.

May be harmful and cause respiratory tract irritation if inhaled.

May be harmful and cause irritation if absorbed through skin.

May cause eye irritation.

First aid measurements:

IF SWALLOWED: Immediately consult a physician and Giftinformationscentralen. Rinse mouth by water. Remove any dental prostheses. Move the person to fresh air and into a position that eases breathing. If the person is conscious and not feeling sick, give small amounts of water to drink. Never give anything by mouth if the person is unconscious. If the person is unconscious put them in prone position and ensure open airways. Loosen tight clothing.

IF BREATHED IN: Move the person to fresh air and into a position that eases breathing. If the person is not breathing, give artificial respiration. Note that mouth-to-mouth contact can be dangerous to the person giving it. If the person is unconscious put them in prone position and ensure open airways. Loosen tight clothing. Consult a physician.

IN CASE OF SKIN CONTACT: Wash immediately with plenty of soap and water. Remove contaminated clothing. Consult a physician, especially if irritation occurs. Clean contaminated clothing before use.

IN CASE OF EYE CONTACT: Flush eyes with plenty of water for at least 10 minutes as a precaution. Lift upper and lower eyelid occasionally. Remove contact any lenses. Consult a physician if irritation occurs.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Emergency information

Ammonium persulfate (APS) (Sigma Aldrich A3678)

Synonyms: AP APS Ammonium peroxodisulfate Ammonium peroxydisulfate PER

CAS-no: 110-18-9

Description:

Tested for use in acrylamide polymerization.

Hazards identification:

May intensify fire; oxidiser. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties. May cause respiratory irritation.

Precautionary safety measurements upon handling:

Keep/Store away from clothing/ combustible materials. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves.

First aid measurements:

IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

IF BREATHED IN: If breathed in, move person into fresh air. If not breathing, give artificial respiration. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ Consult a physician.

IN CASE OF SKIN CONTACT: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

IN CASE OF EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Symptoms and effects (acute and delayed):

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Emergency folder
2-Mercaptoethanol

Synonyms: beta-Mercaptoethanol; 2-Hydroxyethyl Mercaptan; 2-Hydroxyethanethiol; Thioglycol.

CAS NO- 60-24-2

Description: clear, colorless liquid. Flash Point: 73.9 °C

Hazard identification:

Warning! May be fatal if absorbed through the skin. Causes severe eye irritation. Harmful if swallowed.

Combustible liquid and vapor. May cause skin and respiratory tract irritation. Moisture sensitive.

Target Organs: Central nervous system, respiratory system, eyes.

Fire fighting measures

Extinguishing media: Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

First aid measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: **Do not induce vomiting.** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do **NOT** use mouth-to-mouth resuscitation.

Emergency phone: Giftinformationscentralen 112

For more information

<http://fscimage.fishersci.com/msds/13740.htm>

Emergency folder

Chloroform (Sigma Aldrich 496189)

Description / Main use: Chloroform is used for purification of nucleic acids from organic impurities and protein.

Hazards identification:

Harmful if swallowed.

Irritating to skin.

First aid measurements:

IF SWALLOWED: Immediately consult a physician and Giftinformationscentralen. Rinse mouth by water. Remove any dental prostheses. Move the person to fresh air and into a position that eases breathing. If the person is conscious and not feeling sick, give small amounts of water to drink. Never give anything by mouth if the person is unconscious. If the person is unconscious put them in prone position (framstupa sidoläge) and ensure open airways. Loosen tight clothing.

IF BREATHED IN: Move the person to fresh air and into a position that eases breathing. If the person is not breathing, give artificial respiration. Note that mouth-to-mouth contact can be dangerous to the person giving it. If the person is unconscious put them in prone position (framstupa sidoläge) and ensure open airways. Loosen tight clothing. Consult a physician. If decomposition product released upon fire has been inhaled the effects may be delayed.

IN CASE OF SKIN CONTACT: Take off contaminated clothing and shoes immediately. Wash immediately with plenty of soap and water.. Consult a physician. Clean contaminated clothing before use.

IN CASE OF EYE CONTACT: Flush eyes with plenty of water for at least 15. Lift upper and lower eyelid occasionally. Remove contact any lenses. Consult a physician if irritation occurs.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Emergency information

Cyclohexamide

CAS Number 66-81-9

FIRST AID MEASURES

4Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. **In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated. **Indication of any immediate medical attention and special treatment needed**

no data available

Emergency folder

Diethyl pyrocarbonate (Sigma Aldrich D5758)

CAS-no: 1609-47-8

Synonyms: DEPC, DEP, Ethoxyformic acid anhydride, Diethyl oxydiformate.

Description:

DEPC is a nonspecific RNase inhibitor. Combustible and vapor. Contact with Ammonia causes decomposition to Urethane, a possible carcinogen.

Hazards identification:

DEPC is harmful for both humans and the environment. Irritant of eye, skin and respiratory tract, acutely toxic upon ingestion.

Harmful if swallowed.

Harmful if inhaled

Harmful in contact with skin.

Risk of serious damage to eyes.

First aid measurements:

IF SWALLOWED: DO NOT INDUCE VOMITING, unless instructed to do so by medical personnel. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.

IF BREATHED IN: Move to fresh air. If not breathing, give artificial respiration. Consult a physician immediately.

IN CASE OF SKIN CONTACT: Immediately flush with plenty of water for at least 15 min. Call a physician.

IN CASE OF EYE CONTACT: Flush eyes with water for at least 15 minutes, also under eyelids. Remove contact lenses if possible. Call a physician immediately.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Emergency folder

Dimethyl sulfoxide (Sigma Aldrich D8418)

CAS-no: 67-68-5

Synonyms: DMSO, Methylsulfoxide

Description:

DMSO is an organic solvent.

Hazards identification:

DMSO has low toxicity in itself, but exposure to DMSO solutions containing toxic materials can enhance absorption of these into the body.

May be harmful if swallowed.

May be harmful if inhaled and may cause respiratory tract irritation, headache, dizziness, and sedation.

May be harmful if absorbed through skin and may cause skin irritation, including stinging, burning, rashes and vesicles.

May cause eye irritation.

First aid measurements:

IF SWALLOWED: **DO NOT INDUCE VOMITING.** Rinse mouth with water.

Never give anything by mouth to an unconscious person. Consult a physician.

IF BREATHED IN: Move the person to fresh air. If not breathing, give artificial respiration. Consult a physician.

IN CASE OF SKIN CONTACT: Wash off with soap and plenty of water.

Remove contaminated clothing and wash before reuse. Consult a physician if irritation persists.

IN CASE OF EYE CONTACT: Flush eyes with water for at least 15 minutes as a precaution. If irritation persists, consult a physician.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Emergency instructions for work with ethidium bromide or SYBR

Identifiers

CAS number 1239-45-8

First aid measures: If you get ethidium bromide or SYBR solution on the skin wash with plenty of water (at least 15 min). If you get ethidium bromide or SYBR in the eye wash immediately with water for at least 15 min and if irritation persists go to the hospital emergency unit.

Emergency folder

Formaldehyde (Sigma Aldrich F8775)

CAS-no: 50-00-0

Synonyms: methanal, formalin, formic aldehyde, methaldehyde, methyl aldehyde, methylene oxide, oxomethane, and oxymethylene.

Description:

Formaldehyde is gas sold in aqueous solution

Hazards identification:

Formaldehyde Solution is acutely toxic by inhalation, skin contact and swallowing.

Danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Causes severe skin burns and eye damage.

Limited evidence of carcinogenic effect.

May cause an allergic skin reaction.

Causes damage to organs.

Liquid and gases are highly flammable.

First aid measurements:

IF SWALLOWED: **DO NOT INDUCE VOMITING.** Rinse mouth with water. Never give anything by mouth to an unconscious person. Transport the person to emergency care facility.

IF INHALED: Move the person to fresh air. If not breathing, give artificial respiration. Consult a physician.

Symptoms of pulmonary edema can be delayed up to 48 hours after exposure.

IN CASE OF SKIN CONTACT: Remove contaminated clothing and wash before reuse. Wash off with soap and plenty of water. Take the person immediately to the hospital. Consult a physician.

IN CASE OF EYE CONTACT: Flush eyes with water for at least 30 minutes while holding eyelids open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Consult a physician. Transport the person to the hospital.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Emergency folder

Formamide (Sigma Aldrich F9037)

CAS-no: 75-12-7

Synonyms: methanal, formalin, formic aldehyde, methaldehyde, methyl aldehyde, methylene oxide, oxomethane, and oxymethylene.

Description:

Formamide is an amide derived from formic acid. It is a clear, colorless liquid

Hazards identification:

May cause harm to unborn child

Avoid inhalation, swallowing, and skin and eye exposure

In case of accident or if you feel unwell, seek medical advice immediately

First aid measurements:

IF SWALLOWED: **DO NOT INDUCE VOMITING.** Rinse mouth with water.

Never give anything by mouth to an unconscious person. Consult a physician.

IF INHALED: Move the person to fresh air. If not breathing, give artificial respiration. Consult a physician.

Symptoms of pulmonary edema can be delayed up to 48 hours after exposure.

IN CASE OF SKIN CONTACT: Remove contaminated clothing and wash before reuse. Wash off with soap and plenty of water. Take the person to the hospital. Consult a physician.

IN CASE OF EYE CONTACT: Flush eyes with water for at least 15 minutes while holding eyelids open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Consult a physician

Emergency phone: Giftinformatiescentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Emergency folder
Hydroxyurea (Sigma Aldrich H8627)

CAS-no: 127-07-1

Synonyms: HU

Description:

Anti-neoplastic. Inactivates ribonucleoside reductase by forming a free radical nitroxide that binds a tyrosyl free radical in the active site of the enzyme. This blocks the synthesis of deoxynucleotides, which inhibits DNA synthesis and induces synchronization or cell death in S-phase.

Hazards identification:

May cause heritable genetic damage. Possible risk of harm to the unborn child. Suspected of damaging fertility.

May be harmful if inhaled. May cause respiratory tract irritation.

May be harmful if swallowed.

May be harmful if absorbed through skin. May cause skin irritation.

May cause eye irritation.

First aid measurements:

Consult a physician.

IF SWALLOWED: Never give anything by mouth to an unconscious person.

Consult a physician.

IF INHALED: Move the person to fresh air. If not breathing, give artificial respiration. Consult a physician.

IN CASE OF SKIN CONTACT: Wash off with soap and plenty of water.

Consult a physician.

IN CASE OF EYE CONTACT: Flush eyes with water for at least 15 minutes as a precaution. If irritation persists, consult a physician.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Emergency folder

Methyl Methanesulfonate

CAS-no: 66-27-3

Synonyms: MMS

Description: Methyl methanesulfonate is an ester of sulfuric acid that exists as a colorless to amber liquid at room temperature

Hazards identification:

Methyl methanesulfonate is reasonably anticipated to be a human carcinogen based on sufficient evidence of carcinogenicity from studies in experimental animals.

Methyl methanesulfonate caused tumors in mice and rats at several different tissue sites and by several different routes of exposure.

No epidemiological studies were identified that evaluated the relationship between human cancer and exposure specifically to methyl methanesulfonate.

First aid measurements:

If swallowed: Induce vomiting with fingers down the back of the throat, give water to drink as much as possible.

Skin contact: Immediately remove all contaminated clothing, including footwear and flush skin with running water and soap if available.

Eye contact: Wash out immediately with fresh running water.

Use virkon to neutralize activity.

More information: <http://monographs.iarc.fr/ENG/Monographs/vol71/mono71-48.pdf>

Emergency information

Sodium hydroxide / NaOH, 5M (Substratenheten)

Synonyms: caustic soda, lye

CAS-no: 1310-73-2

EC-no: 215-185-5

Description: Sodium hydroxide solution is a strongly basic solution.

Main use: Laboratory chemical.

Hazards identification:

Corrosive.

Causes severe eye burns.

Causes skin burns. May cause deep, penetrating ulcers of the skin.

Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and shock.

Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma.

Prolonged or repeated skin contact may cause dermatitis.

First aid measurements:

IF SWALLOWED: Do NOT induce vomiting. Immediately consult a physician and Giftinformationscentralen. Rinse mouth by water. Remove any dental prostheses. Move the person to fresh air and into a position that eases breathing. If the person is conscious and not feeling sick, give small amounts of water to drink. Never give anything by mouth if the person is unconscious. If the person is unconscious put them in prone position (framstupa sidoläge) and ensure open airways. Loosen tight clothing.

IN CASE OF SKIN CONTACT: Remove contaminated clothing immediately. Wash off with plenty of soap and water.. Consult a physician. Clean contaminated clothing before use.

IN CASE OF EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes. Lift upper and lower eyelid occasionally. Remove contact any lenses. Consult a physician.

Symptoms and effects (acute and delayed):

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

Emergency phone: Giftinformationscentralen 112

Emergency folder

**Phenol:Chloroform mixtures 5:1 and 25:24:1 (with Isoamyl Alcohol)
(Sigma Aldrich P1944 & P2069)**

Description / Main use: Phenol:Chloroform mixtures are used for purification of nucleic acids from organic impurities and protein.

Hazards identification:

Acute toxic if swallowed and in contact with skin.

Causes burns.

Danger of serious damage to health by prolonged exposure through inhalation, skin contact or swallowing.

First aid measurements:

IF SWALLOWED: Do NOT induce vomiting. Immediately consult a physician and Giftinformationscentralen. Rinse mouth by water. Remove any dental prostheses. Move the person to fresh air and into a position that eases breathing. If the person is conscious and not feeling sick, give small amounts of water to drink. Never give anything by mouth if the person is unconscious. If the person is unconscious put them in prone position (framstupa sidoläge) and ensure open airways. Loosen tight clothing.

IF BREATHED IN: Move the person to fresh air and into a position that eases breathing. If the person is not breathing, give artificial respiration. Note that mouth-to-mouth contact can be dangerous to the person giving it. If the person is unconscious put them in prone position (framstupa sidoläge) and ensure open airways. Loosen tight clothing. Consult a physician. If decomposition product released upon fire has been inhaled the effects may be delayed.

IN CASE OF SKIN CONTACT: Take off contaminated clothing and shoes immediately. Wash immediately with plenty of soap and water.. Consult a physician. Clean contaminated clothing before use.

IN CASE OF EYE CONTACT: Flush eyes with plenty of water for at least 15. Lift upper and lower eyelid occasionally. Remove contact any lenses. Consult a physician if irritation occurs.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Emergency folder

Complete EDTA protease inhibitor cocktail tablets (Sigma Aldrich D5758)

Components: Polyvinylpyrrolidone (CAS-no:9003-39-8), Polyethylene glycol (CAS-no:25322-68-3, AEBSF 4-(2-Aminoethyl)-benzenesulfonyl fluoride hydrochloride (CAS-no:30827-99-7), D-Mannitol (Cas-no:69-65-8)

Description:

Mixture of several protease inhibitors in tablet form.

Hazards identification:

Especially the protease inhibitor AEBSF (similar to PMSF) is toxic and corrosive.

Harmful if swallowed (may cause gastrointestinal irritation).

Harmful if inhaled .

Harmful/corrosive in contact with skin.

May cause damage to eyes.

First aid measurements:

IF SWALLOWED: DO NOT INDUCE VOMITING, unless instructed to do so by medical personnel. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.

IF BREATHED IN: Move to fresh air. If not breathing, give artificial respiration. Consult a physician.

IN CASE OF SKIN CONTACT: Immediately flush with plenty of water for at least 15 min. Consult a physician .

IN CASE OF EYE CONTACT: Flush eyes with water for at least 15 minutes, also under eyelids. Remove contact lenses if possible. Call a physician immediately.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Emergency folder

Phenylmethanesulfonyl fluoride (Sigma Aldrich P7626)

CAS-no: 329-98-6

Synonyms: PMSF, α -Toluenesulfonyl fluoride, Benzylsulfonyl fluoride.

Description:

PMSF is an inhibitor of serine proteases and acetylcholinesterase. Inhibits proteases such as trypsin, chymotrypsin, thrombin and papain.

Hazards identification:

PMSF is a highly toxic inhibitor of acetylcholinesterase, acutely toxic and the powder is skin corrosive. DANGER!

Toxic if swallowed.

Harmful if inhaled .

Corrosive and causes burns in contact with skin.

Causes serious damage to eyes.

Hydrolysis and contact with metal surfaces can generate flammable/explosive hydrogen gas.

First aid measurements:

IF SWALLOWED: DO NOT INDUCE VOMITING, unless instructed to do so by medical personnel. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician, call the poison information center (Giftcentralen 112)

IF BREATHED IN: Move to fresh air. If not breathing, give artificial respiration. Consult a physician immediately.

IN CASE OF SKIN CONTACT: Remove contaminated clothing/shoes immediately and wash with soap and plenty of water for at least 15 min. Call a physician.

IN CASE OF EYE CONTACT: Flush eyes with water for at least 15 minutes, also under eyelids. Remove contact lenses if possible. Call a physician immediately.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Emergency folder

Sodium Azide

Synonyms: Sodium salt of hydrazoic acid; Smite; Azium.

CAS-No. : 26628-22-8

Hazards identification:

Danger! May be fatal if inhaled, absorbed through the skin or swallowed.

Reacts with many heavy metals to form explosive compounds. A danger of explosion exists from friction, heat or shock. Causes eye, skin, and respiratory tract irritation. Contact with acids liberates toxic gas. Readily absorbed through the skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Target Organs: Blood, kidneys, heart, central nervous system, liver, spleen, respiratory system, eyes, and skin.

First aid measures.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

SPEEDY ACTION IS CRITICAL!

Ingestion: **POISON** material. If swallowed, get medical aid immediately. Only induce vomiting if directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. **SPEED IS ESSENTIAL, OBTAIN MEDICAL AID IMMEDIATELY.** Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms and effects, both acute and delayed: Nausea, Dizziness

Emergency phone: Giftinformatiecentrale 112

For more information

<https://fscimage.fishersci.com/msds/20960.htm>

Emergency folder

Thiabendazole, TBZ (Sigma Aldrich T8904)

CAS-no: 148-79-8

Synonyms: Thiabendazole, TBZ, 2-(4-Thiazolyl)benzimidazole

Description:

Thiabendazole inhibits cell division by blocking mitotic spindle formation.

Hazards identification:

May be harmful if swallowed.

May be harmful if inhaled.

May be harmful if absorbed through skin and may cause skin irritation.

May cause eye irritation.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

First aid measurements:

IF SWALLOWED: Never give anything by mouth to an unconscious person. Consult a physician.

IF INHALED: Move the person to fresh air. If not breathing, give artificial respiration. Consult a physician.

IN CASE OF SKIN CONTACT: Wash off with soap and plenty of water. Consult a physician.

IN CASE OF EYE CONTACT: Flush eyes with water for at least 15 minutes as a precaution. If irritation persists, consult a physician.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Risk assessment

N,N,N',N'-Tetramethylethylenediamine (TEMED) (Sigma Aldrich T9281)

Synonyms: 1,2-Bis(dimethylamino)ethane TEMED TMEDA

CAS-no: 110-18-9

Appearance: Clear colorless liquid.

Storage: Cool, dry and well ventilated. Keep the container tightly closed.

Molecular formula: C₆H₁₆N₂

Molecular weight: 116,2 g/mol

Description:

Crosslinker and catalyst for making acrylamide gels.

Hazards identification:

Highly flammable liquid and vapour. Harmful if swallowed. Causes severe skin burns and eye damage. Harmful if inhaled.

First aid measurements:

IF SWALLOWED: **DO NOT INDUCE VOMITING.** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

IF BREATHED IN: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

IN CASE OF SKIN CONTACT: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

IN CASE OF EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>

Emergency information
Tunicamycin (Sigma)
CAS-no: 11089-65-9

Description: Antibacterial and antifungal. Blocks the formation of protein *N*-glycosidic linkages by inhibiting the transfer of *N*-acetylglucosamine 1-phosphate to dolichol monophosphate. Inhibits bacterial and eukaryote *N*-acetylglucosamine transferases and prevents formation of *N*-acetylglucosamine lipid intermediates.

Hazards identification:

Very toxic/lethal if swallowed.

First aid measurements:

IF SWALLOWED: Immediately consult a physician and Giftinformationscentralen. Rinse mouth by water. Remove any dental prostheses. Move the person to fresh air and into a position that eases breathing. If the person is conscious and not feeling sick, give small amounts of water to drink. Never give anything by mouth if the person is unconscious. If the person is unconscious put them in prone position (framstupa sidoläge) and ensure open airways. Loosen tight clothing.

IF BREATHED IN: Move the person to fresh air and into a position that eases breathing. If the person is not breathing, give artificial respiration. Note that mouth-to-mouth contact can be dangerous to the person giving it. If the person is unconscious put them in prone position (framstupa sidoläge) and ensure open airways. Loosen tight clothing. Consult a physician. If decomposition product released upon fire has been inhaled the effects may be delayed.

IN CASE OF SKIN CONTACT: Wash immediately with plenty of soap and water. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

IN CASE OF EYE CONTACT: Flush eyes with plenty of water for at least 10 minutes as a precaution. Lift upper and lower eyelid occasionally. Remove contact any lenses. Consult a physician if irritation occurs.

Emergency phone: Giftinformationscentralen 112

Find out more: <http://www.sigmaaldrich.com/>