



OAK INDUSTRIAL SUPPLIES

"THE INDUSTRIAL SUPPLIES PEOPLE"

HAMILTON ROAD SUTTON IN ASHFIELD

NOTTINGHAMSHIRE NG17 5LN

TELEPHONE 01623 442222 FAX 01623 441234

HEALTH & SAFETY DATA SHEET

Identification Of The Substance And Supplier

Product Name: **Millericide 2193**
Name Of Supplier: Oak Industrial Supplies
Hamilton Road
Sutton in Ashfield
Nottinghamshire
NG17 5LN
Business Tel No: 01623 442222
Emergency Tel No: 01484 713201

Product Description: An isothiazoline based water soluble liquid which is very effective at particularly low concentration for the control of microbiological contamination. For ease of handling and accuracy of addition Millericide 2193 has been pre-diluted with water.

Application: A routine maintenance dose at 0.01% in coolant system whilst a shock dose at 0.025% to overcome heavy bacterial contamination. A treat rate of 1 ml per litre of sump volume provides an activity of 140 ppm.

Composition/Information On Ingredients.

Chemical nature of the substance or preparation:

Product is a mixture of:

Water

Isothiazoline Derivate

Additives

Hazardous Components:

13446189	Magnesium Nitrate Hexahydrate Xi; O; R8 - 36	10 / 30%
26172554	5-Chloro-2-methyl-4-isothiazonline-3-one C; R20/21/22-34-43	10 / 30%
2682204	2-methyl-4-isothiazonline-3-one C; R220/21/22-34-43	1 / 5%

Hazards Identification.

Hazard Designation: C- Corrosive

Information pertaining to particular dangers for man and environmental:

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R34 - Causes Burns

R43 - May cause sensitisation by skin contact.

Classification system: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplying companies.



OAK INDUSTRIAL SUPPLIES

"THE INDUSTRIAL SUPPLIES PEOPLE"

HAMILTON ROAD SUTTON IN ASHFIELD

NOTTINGHAMSHIRE NG17 5LN

TELEPHONE 01623 442222 FAX 01623 441234

First Aid Measures.

Eyes: Rinse opened eye several minutes under running water. If symptoms persist, consult doctor.

Skin: Wash with soap and water and rinse thoroughly.

Inhalation: Supply fresh air; In case of unconsciousness bring patient into stable side position for transport.

Ingestion: Drink copious amounts of water and provide fresh air. Seek medical advice.

General Information: Instantly remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Fire Fighting Measures:

Suitable extinguishing media: Water haze, Foam, BC Powder, ABC Powder, Carbon Dioxide, Sand.

Extinguishing media which must not be used for safety reasons:

Water with a full jet.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Nitrogen oxide, Carbon monoxide.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus. Wear full protective suit.

Accidental Release Measures:

Personal precautions such as: Wear protective equipment. Keep unprotected persons away.

Environmental precautions such as: Prevent material from reaching sewage system, holes and cellars. Do not allow to enter drainage system, surface or ground water.

Methods for cleaning up such as: Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

Additional Information: See section 7 for information on safe handling

Handling And Storage.

Handling:

Information for safe handling: Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires: Protect from heat.

Storage:

Requirements to be met by storerooms and containers: No special requirements.

Information about storage in one common storage facility:

Storage temperature 4 - 40 (deg C)

Further information about storage condition:

Keep container tightly sealed. Protect from heat and direct sun light.

Storage Class: Class according to regulation on inflammable liquids.

Void.



OAK INDUSTRIAL SUPPLIES

"THE INDUSTRIAL SUPPLIES PEOPLE"

HAMILTON ROAD SUTTON IN ASHFIELD

NOTTINGHAMSHIRE NG17 5LN

TELEPHONE 01623 442222 FAX 01623 441234

Exposure Controls/Personal Protection.

Components with the limit values that required monitoring at the workplace:

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

Additional Information:

The list with the limit values that were valid during the compilation of this material safety data sheet were used as basis.

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and food. Take off immediately all contaminated clothing. Wash hands during breaks and at the end of work. Avoid contact with skin and eyes.

Respiratory Equipment: In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Hand protection: Protective gloves.

Eye protection: Tightly sealed safety glasses.

Skin protection: Protective work clothing

Physical And Chemical Properties.

Appearance:	Fluid
Odour:	Characteristic
Colour:	Amber
Boiling point:	100 (deg C)
Flash Point:	N/A
Flammability (solid, gas):	Not determined
Explosive properties:	Not determined
Critical values for explosion:	Not determined
Relative density:	at 25 (deg C) - 1.300 g/cm ³
Solubility in water:	Emulsifiable
Phvalue:	at 20 (deg C) - 1.9 - 4.0
Viscosity:	at 25 (deg C) - 16 cPs

Stability And Reactivity

Conditions to avoid: At normal use no circumstances to avoid.

Material to avoid: At normal use no substance to avoid.

Dangerous reactions: At normal use no dangerous reactions.

Hazardous decomposition products: At normal use no hazardous decomposition products.



OAK INDUSTRIAL SUPPLIES

"THE INDUSTRIAL SUPPLIES PEOPLE"

HAMILTON ROAD SUTTON IN ASHFIELD

NOTTINGHAMSHIRE NG17 5LN

TELEPHONE 01623 442222 FAX 01623 441234

Toxicological Information.

Ingestion: Caustic effect, harmful effects.

Inhalation: Caustic effect, harmful effects.

Skin Contact: Caustic effect on skin and mucous membranes. Harmful effects.

Eye Contact: Strong caustic effect.

Sensitisation: Sensitisation possible by skin contact.

Ecological Information.

Persistence and degradability: Not determined.

Behaviour in environmental system: Not determined.

Mobility and bioaccumulation potential: Not determined

Ecotoxicological effects: Not determined.

Behaviour in sewage processing plants: Not determined.

General notes: Do not allow product to reach ground water, water bodies or sewage system. Danger to drink water if even extremely small quantities leek into soil.

Disposal Considerations.

Product:

Disposal recommendation: Must not be disposed of together with household garbage. Do not allow products to reach sewage systems. Must be specially treated under adherence to official regulations.

Un-cleaned packages:

Disposal recommendation: Disposal must be made according to official regulations.

Recommended cleaning agent: Water, if necessary with cleaning agent.

Transport Information.

UN Number:	2922	Packaging:	II
ADR/RID Class:	8	ICAO/IATA Class:	8
Classification:	C - Corrosive		

Regulatory Information.

Classification: C - Corrosive.

Risk phrase: R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed. R34 - Causes burns. R43 - May cause sensitization by skin contact.

Safety phrases: S7 - Keep container tightly closed. S15 - Keep away from heat. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 - Wear suitable clothing, gloves and eye/face protection. S45 - In Case of accident or if you feel unwell, seek medical advice immediately

Other Information.

The information relates only to the specific materials designated herewith and may not be valid for this material when used in conjunction with any other materials or in any other process.