

SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name or designation of the mixture	Mouldex
Registration number	-
Product registration number	Not available.
Synonyms	None.
Issue date	12-October-2011
Version number	04
Revision date	21-October-2013
Supersedes date	09-October-2013

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

Identified uses	Preservative for liquids used in industrial processes.
Uses advised against	This product should only be used for the use described above.

1.3 Details of the supplier of the safety data sheet

UK

Company name	Impra Wood Protection Ltd
Address	Park Road. Industrial Estate, Barrow-in-Furness, Cumbria LA14 4EQ United Kingdom
Telephone	+44 (0) 1229 877533
Fax	+44 (0) 1229 430761
e-mail	sales@impra.co.uk
Website	www.impra.biz
1.4 Emergency number	+44 (0) 23 8070 2576

Section 2: Hazards identification

2.1 Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification C;R34, R43, R52/53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns and eye damage.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.

Environmental hazards

Hazardous to the aquatic environment - long-term hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Causes burns. May cause sensitisation by skin contact. Occupational exposure to the substance or mixture may cause adverse health effects.

Environmental hazards	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Specific hazards	Causes burns. May cause sensitisation by skin contact. Do not breathe dust/fume/gas/mist/vapors/spray. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Main symptoms	May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Sensitisation. Corrosive effects.

2.2 Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Mixture (3:1) of: 5-chloro-2-methyl -2H-isothiazol-3-one and 2-methyl-2H-isothiazol -3-one



Signal word	Danger
Hazard statements	H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention	P260 - Do not breathe mist or vapour. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P264 - Wash thoroughly after handling. P273 - Avoid release to the environment.
Response	P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P310 - Immediately call a POISON CENTRE or doctor/physician. P363 - Wash contaminated clothing before reuse.
Storage	P405 - Store locked up.
Disposal	P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information Contains Mixture (3:1) of: 5-chloro-2-methyl -2H-isothiazol-3-one and 2-methyl-2H-isothiazol -3-one. May produce an allergic reaction.

2.3 Other hazards Not assigned.

Section 3: Composition/information on ingredients

Mixture

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Mixture (3:1) of: 5-chloro-2-methyl -2H-isothiazol-3-one and 2-methyl-2H-isothiazol -3-one	1 - 2.5	55965-84-9	-	613-167-00-5	#

Classification: **DSD:** T;R23/24/25, C;R34, R43, N;R50/53
CLP: Acute Tox. 3;H301, Acute Tox. 3;H311, Skin Corr. 1B;H314, Skin Sens. 1;H317, Acute Tox. 3;H331, Aquatic Acute 1;H400, Aquatic Chronic 1;H410

CLP: Regulation No. 1272/2008.
DSD: Directive 67/548/EEC.
#: This substance has workplace exposure limit(s).

Composition comments The full text for all R- and H-phrases is displayed in section 16.

Section 4: First aid measures

General information	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off contaminated clothing and shoes immediately. In case of shortness of breath, give oxygen. Keep victim warm. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
4.1 Description of first aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Immediately flush skin with plenty of water. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Call a physician or Poison Control Centre immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
4.2 Most important symptoms and effects, both acute and delayed	May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Corrosive effects. May cause allergic skin reaction.
4.3 Indication of any immediate medical attention and special treatment needed	Oxygen, if needed. Keep victim warm. If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately. Appropriate treatment to help protect the affected person against circulatory shock, respiratory depression, and convulsion may be needed.

Section 5: Firefighting measures

General fire hazards	Non-combustible, substance itself does not burn.
5.1 Extinguishing media	
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2 Special hazards arising from the substance or mixture	The product itself does not burn. No unusual fire or explosion hazards noted. May decompose upon heating to produce corrosive and/or toxic fumes. Hydrogen Chloride (HCl). Sulphur Oxides (SO _x). Nitrogen Oxides (NO _x).
5.3 Advice for firefighters	
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective clothing.
Special firefighting procedures	In case of fire and/or explosion do not breathe fumes. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Water runoff can cause environmental damage. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.
For emergency responders	As detailed in section for non-emergency personnel Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.
6.2 Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not let product enter drains. Do not contaminate surface water. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Absorb in vermiculite, dry sand or earth and place into containers. Do not allow the spilled product to enter public drainage system or open water courses. Deactivate spill area with freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water. Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill. Allow to stand for 30 minutes. Following product recovery, flush area with water. Prevent product from entering drains.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

6.4 Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Wear appropriate personal protective equipment. Handle and open container with care. Do not breathe mist or vapour. Avoid contact with skin, eyes and clothing. Avoid prolonged exposure.

When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Store in a well-ventilated place.

Keep container tightly closed. Store in upright position only.

Storage temperature: between ≥ 1 °C and ≤ 55 °C.

Keep only in the original container.

7.3 Specific end use(s)

The specified uses for this material are shown in section 1 of this document

Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

United Kingdom

Components	Type	Value	Form
Mixture (3:1) of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (55965-84-9)	STEL	0.23 mg/m ³	CMI Rohm & Haas
	TWA	4.5 mg/m ³	MI Rohm& Haas
		0.076 mg/m ³	CMI Rohm & Haas
		1.5 mg/m ³	MI Rohm& Haas

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

DNEL

Not available.

PNEC

Not available.

8.2 Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information

Wear chemical protective equipment that is specifically recommended by the manufacturer. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Eye wash fountain and emergency showers are recommended.

Eye/face protection

Avoid contact with eyes. Wear eye/face protection. (EN166)

Skin protection

- Hand protection	Wear protective gloves. Contains a potential skin sensitizer. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. Before removing gloves clean them with soap and water. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Other	Avoid contact with the skin. Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Remove and wash contaminated clothing before re-use. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. (EN149)
Thermal hazards	Not available.
Hygiene measures	When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practices.
Environmental exposure controls	Contain spills and prevent releases and observe national regulations on emissions. Environmental manager must be informed of all major releases. Avoid release to the environment.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Form	Liquid.
Colour	light blue to light green.
Odour	Pungent.
pH	2.0 - 4.0
Melting point/freezing point	-3 °C (26.6 °F) estimated
Boiling point, initial boiling point, and boiling range	100 °C (212 °F) estimated
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.
Flammability (solid, gas)	Not available
Flammability limit - lower (%)	Not applicable
Flammability limit - upper (%)	Not applicable
Vapour pressure	Not applicable.
Vapour density	0.6 estimated
Evaporation rate	< 1
Relative density	Not available.
Density	1.02 g/cm ³
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	3000 mPa·s @ 25C
Percent volatile	95 - 96 %
9.2 Other information	No relevant additional information available.

Section 10: Stability and reactivity

10.1 Reactivity	Material is stable under normal conditions.
10.2 Chemical stability	Material is stable under normal conditions.

10.3 Possibility of hazardous reactions	Stable under recommended storage conditions. Hazardous polymerisation does not occur.
10.4 Conditions to avoid	Not available.
10.5 Incompatible materials	This product may react with reducing agents. oxidising agents, amines, mercaptans
10.6 Hazardous decomposition products	Hydrogen chloride. Nitrogen oxides (NOx). Sulphur oxides.

Section 11: Toxicological information

General information May cause sensitisation by skin contact.

Information on likely routes of exposure

Ingestion	Causes digestive tract burns. May be harmful if swallowed.
Inhalation	May be harmful if inhaled.
Skin contact	Causes skin burns.
Eye contact	Causes severe eye burns.

Symptoms May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system.

11.1 Information on toxicological effects

Acute toxicity Causes burns.

Product	Test results
Mouldex (Mixture)	Acute Dermal LD50 Rabbit: > 5000 mg/kg Acute Inhalation LC50 Rat: 18.9 mg/l estimated from active ingredient Acute Oral LD50 Rat: > 5000 mg/kg male Acute Oral LD50 Rat: 3310 mg/kg female

Components	Test results
Mixture (3:1) of: 5-chloro-2-methyl -2H-isothiazol-3-one and 2-methyl-2H-isothiazol -3-one (55965-84-9)	Acute Inhalation LC50 Rat: 330 µg/l 4.00 hours

Skin corrosion/irritation	Corrosive to skin and eyes.
Serious eye damage/eye irritation	Causes severe eye burns.
Respiratory sensitisation	Not available.
Skin sensitisation	May cause an allergic skin reaction. The results of testing on guinea pigs showed this material to be sensitizing.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not classified. Non-carcinogenic in both a mouse dermal and rat oral carcinogenicity study for the active ingredient.
Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
Mixture versus substance information	None known
Other information	None known.

Section 12: Ecological information

12.1 Toxicity

Product	Test results
Mouldex (Mixture)	EC50 Daphnia: 9.1 mg/l 48.00 hours LC50 Fish: 1.3 mg/l 96.00 hours

Components	Test results
Mixture (3:1) of: 5-chloro-2-methyl -2H-isothiazol-3-one and 2-methyl-2H-isothiazol -3-one (55965-84-9)	EC50 Activated sludge: 4.5 mg/l EC50 Algae: 18 µg/l Selenastrum capricornutum LC50 Bluegill (Lepomis macrochirus): 28 µg/l 96.00 hours EC50 Daphnia: 160 µg/l 48.00 hours EC50 Marine water algae: 3 µg/l Skeletonema costatum LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 19 µg/l 96.00 hours

* Estimates for product may be based on additional component data not shown.

12.2 Persistence and degradability	No data is available on the degradability of this product.
12.3 Bioaccumulative potential	Not available.
Mobility	The product is miscible with water. May spread in water systems.
Environmental fate - Partition coefficient	Not available.
12.4 Mobility in soil	Not available.
12.5 Results of PBT and vPvB assessment	Not available.
12.6 Other adverse effects	May cause long-term adverse effects in the aquatic environment. Do not discharge into drains, water courses or onto the ground. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13: Disposal considerations

13.1 Waste treatment methods

Residual waste	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with local regulations. The organic ingredients can be incinerated in a suitable installation when in accordance with local regulations. Avoid discharge into water courses or onto the ground.
Contaminated packaging	Do not re-use empty containers. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	Waste codes should be assigned by the user based on the application for which the product was used. The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	This material and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14: Transport information

ADR

14.1 UN number	UN3265
14.2 UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
14.3 Transport hazard class(es)	8
Subsidiary class(es)	-
14.4 Packing group	II

Labels required	8
14.6 Special precautions for user	Not available.
IATA	
14.1 UN number	UN3265
14.2 UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
14.3 Transport hazard class(es)	8
Subsidiary class(es)	-
14.4 Packing group	II
Environmental hazards	No
14.6 Special precautions for user	Not available.
IMDG	
14.1 UN number	UN3265
14.2 UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
14.3 Transport hazard class(es)	8
Subsidiary class(es)	-
14.4 Packing group	II
Marine pollutant	No
EmS No.	F-A, S-B
14.6 Special precautions for user	Not available.



ADR



IATA



IMDG

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

E - Explosive O - Oxidising F - Highly flammable F+ - Extremely flammable T - Toxic T+ - Very toxic C - Corrosive Xn - Harmful Xi - Irritant N - Dangerous for the environment

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Commission Decision 2000/479/EC on the implementation of a European pollutant emission register (EPER)

Not listed.

Regulation (EC) No. 1907/2006, Article 59(1). Candidate List

Not listed.

Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

The product is classified and labelled in accordance with EC directives or respective national laws.

National regulations

Young people under 18 years old are not allow to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Section 16: Other information**List of abbreviations**

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

Not available.

Full text of any statements or R-phrases and H-phrases under Sections 2 to 15

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R43 May cause sensitisation by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H301 - Toxic if swallowed.
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H331 - Toxic if inhaled.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

Training information

Not available.

Disclaimer

MANUFACTURER DISCLAIMER: The information given within this SDS is correct to the best of our knowledge, information and belief at the date of its revision and publication. However, the manufacturer makes no representation, warranty or guarantee as to its accuracy, reliability or completeness, nor assumes any liability for its use. It is the user's responsibility to confirm in advance that the information is current, applicable and suitable to their circumstances for each particular use. No representative of ours has authority to waive this provision. Please call for document accuracy if the revision date has exceeded 3 years.

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