

SAFETY DATA SHEET

In accordance with Annex II of Regulations (EC) 1907/2006 as amended by Regulation (EU) 830/2015

So fixes in the 16th hundred divested a good story 1 IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Product identifier

Product Name: **Opticide 200**

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

Farm Disinfectant - For professional use only

Uses advised against:

Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

Company Name: Gannon Chemicals Ltd
Ballindine, Claremorris
Co. Mayo, Ireland
Email address of SDS author: paul@gannonchemicals.ie

1.4 Emergency Telephone Number

Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 - H302 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Resp.

Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE 3 - H335. Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412

For the full text of the H-Statements mentioned in this Section, see Below

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P260 Do not breathe spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.
P284 In case of inadequate ventilation wear respiratory protection.
P301 + P310 IF SWALLOWED: immediately call a POISON CENTER or doctor/physician.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P360 Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed
P501 Dispose of contents/container to hazardous or special waste collection point.

2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Product/Ingredient Name	CAS No.	Weight %	EC Number	Regulation (EC) No 1272/2008 [CLP]
Glutaraldehyde	111-30-8	14.6	203-856-5	Acute Tox. 3 - H301 Acute Tox. 2 - H330 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411
Quaternary ammonium compounds, benzyl- c12-14 (even numbered)-alkyldimethyl, chlorides	85409-22-9	9.7	939-350-2	Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318

4 FIRST AID MEASURES

4.1 Description of first aid measures

- | | | |
|-------|------------------------------------|--|
| 4.1.1 | General Information | For personal protection, see Section 8. Get medical attention immediately. Rinse immediately with plenty of water. Provide eyewash station and safety shower. Show this Safety Data Sheet to the medical personnel. |
| 4.1.2 | Following Inhalation | Remove affected person from source of contamination. Keep affected person warm and at rest. Get medical attention if symptoms are severe or persist. Show this Safety Data Sheet to the medical personnel. |
| 4.1.3 | following skin contact | Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing. |
| 4.1.4 | Following Eye Contact | Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse. |
| 4.1.5 | Following Ingestion | Never give anything by mouth to an unconscious person. Do not induce vomiting. Remove person to fresh air and keep comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately. |
| 4.1.6 | Self-protection of the first aider | First aid personnel should wear appropriate protective equipment during any rescue. |

4.2 Most important symptoms and effects, both acute and delayed

The product contains a sensitising substance. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Severe irritation of nose and throat. Vapours may cause headache, fatigue, dizziness and nausea.
This product is strongly corrosive. May be harmful if swallowed and enters airways. Small amounts may cause serious damage. Overexposure may cause the following adverse effects: Nausea, vomiting. Diarrhoea. Headache. Drowsiness, dizziness, disorientation, vertigo.
May be harmful in contact with skin. May cause serious chemical burns to the skin.
This product is strongly irritating. May cause blurred vision and serious eye damage. May cause serious eye damage. Redness. Irritation. Corneal damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:

5.2 Special hazards arising from the substance or mixture

Harmful vapours
Evolution of fumes/fog, Carbon oxides. The substances/groups of substances mentioned can be released in case of fire.

5.3 Advice for fire-fighters

Special protective equipment: Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

5.4 Additional information

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Ensure adequate ventilation.
Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Information regarding personal protective measures see, chapter 8.

6.2 Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

For large amounts: Pump off product.
For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

6.4 Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7 HANDLING AND STORAGE

- | | | |
|------------|--|---|
| 7.1 | Precautions for safe handling | Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this SDS. Good personal hygiene procedures should be implemented. Wash hands and all contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. |
| 7.2 | Conditions for safe storage, including any incompatibilities | Store at normal room temperature and keep container tightly closed. Keep out of reach of children. No special precautions necessary for protection against fire and explosion. Store away from strong acids. |
| 7.3 | Precautions for safe handling | For the relevant identified use(s) listed in Section 1 the advice mentioned in this |

section 7 is to be observed.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters

Component	CAS No.	Value	Control Parameters	Basis
GLUTARALDEHYDE	111-30-8	Long-term exposure limit (8-hour TWA): Short-term exposure limit (15-minute):	WEL 0.05 ppm Sen 0.2 mg/m ³ (Sen) WEL 0.05 ppm Sen 0.2 mg/m ³ (Sen)	Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.4 mm coating thickness.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

Body protection:

Impervious clothing, Flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

General safety and hygiene measures

Wearing of closed work clothing is recommended. Handle in accordance with good industrial hygiene and safety practice.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

(a)	Form	Liquid
(b)	Colour	Colourless to Yellow
(c)	Odour	Pungent Odour, Characteristic Aldehyde.
(d)	pH value (Conc solution)	5.0
(e)	Melting point/range (°C):	Not Determined
(f)	Initial boiling point/range (°C):	Not Determined
(g)	Decomposition temperature (°C)	Not Determined
(h)	Flash point (°C):	Not Determined
(i)	Ignition temperature (°C)	Not Determined
(j)	Vapour pressure (hPa) at ...°C)	Not Determined
(k)	Vapour density (air=1)	Not Determined
(l)	Density (g/cm ³) at 20°C	1.03
(m)	Bulk density (kg/m ³)	Not Determined
(n)	Water solubility (20°C in g/l)	Completely
(o)	Solubility(ies):	Not Determined
(p)	Partition coefficient	Not Determined
(q)	Viscosity, dynamic (mPa s):	Not Determined

9.2 Other information

This product does not support combustion.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

10.4 Conditions to avoid

See MSDS section 7 - Handling and storage.

10.5 Incompatible materials

Substances to avoid: Halogens, Acids, Reactive Chemicals

10.6 Hazardous decomposition products

No hazardous decomposition products known.

11 TOXICOLOGICAL INFORMATION

11.2.2 Mixtures

No test data is available on the mixture.

Substance data, where relevant and available, are listed below

Substance	Acute toxicity	Skin corrosion/irritation	Serious eye damage/eye irritation	Respiratory or skin sensitisation
Glutaraldehyde	LD50 Oral - rat - 77 mg/kg LC50 Inhalation - rat - 4 h - 0.28 - 0.39 mg/l LD50 Dermal - rabbit - 2000 mg/kg	Skin - rabbit Result: Corrosive	Eyes - rabbit Result: Irreversible damage (Draize test)	Sensitization after skin contact possible. The substance may cause sensitization of the respiratory tract.
Quaternary ammonium compounds, benzyl-C12-14, (even-numbered)-alkyl dimethyl, chlorides	LD50 rat (oral): 397.5 mg/kg LC50 (by inhalation): not determined LD50 rabbit (dermal): 3412 mg/kg	Skin corrosion/irritation rabbit: Caustic effect on skin and mucous membranes	Serious eye damage/irritation rabbit: Irritant. (OECD Guideline 405)	No Data Available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

12 ECOLOGICAL INFORMATION

Substance	Toxicity	Persistence and Degradability	Bioaccumulative potential	Mobility in soil
Glutaraldehyde	LC50 - 1.6 mg/l, Salmo gairdneri, 12.4 mg/l, Cyprinodon variegatus EC50 (48 h) 4.2 mg/l, Daphnia magna (Daphnia test acute, static) EC50 (72 h) 1.2 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201, static)	Elimination information: 90 - 100 % DOC reduction (28 d) (OECD 301 A (new version)) (aerobic, activated sludge, domestic)	No significant accumulation in organisms is expected as a result of the distribution coefficient of noctanol/water (log Pow).	Adsorption in soil: Adsorption to solid soil phase is possible.
Quaternary ammonium compounds, benzyl-C12-14, (even-numbered)-alkyl dimethyl, chlorides	Fish, CL50: 0,515 mg/l Daphnia, CE50: 0,016 mg/l Alga, CI50: 0,03 mg/l Alga, NOEC: 0,009 mg/l	Elimination information: >= 90 % Bismuth-active substance (mod. OECD 301E) > 60 % BOD of the ThOD (28 d) (OECD Guideline 301 F) Readily biodegradable.	Bioaccumulation potential: Accumulation in organisms is not to be expected.	Volatility: The substance will not evaporate into the atmosphere from the water surface. Adsorption in soil: Adsorption to solid soil phase is possible.

Results of PBT and vPvB assessment

The product does not fulfil the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

13 DISPOSAL

This product does not contain any prescribed substance under the Environmental Protection Act (Prescribed Processes and Substances) Regulations 1991 and is not classified as special waste under the Control of Substances (Special Waste) Regulations 1996, but is classified as controlled waste under the Environmental Protection Act 1990. For small quantities, dilute with water to at least 2.5% w/v (25 g/litre) and pour down a wastewater drain (foul sewer). Rinse out containers at least twice and recycle if facilities exist or dispose of as commercial waste. For larger quantities dispose of safely as commercial waste.

13.1 Waste treatment methods

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

14 TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID)	1760
UN No. (IMDG)	1760
UN No. (ICAO)	1760
UN No. (ADN)	1760

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	CORROSIVE LIQUID N.O.S. (GLUTARALDEHYDE, QUATERNARY AMMONIUM COMPOUNDS)
Proper shipping name (IMDG)	CORROSIVE LIQUID N.O.S. (GLUTARALDEHYDE, QUARTENARY AMMONIUM COMPOUNDS)
Proper shipping name (ICAO)	CORROSIVE LIQUID N.O.S. (GLUTARALDEHYDE, QUARTENARY AMMONIUM COMPOUNDS)
Proper shipping name (ADN)	CORROSIVE LIQUID N.O.S. (GLUTARALDEHYDE, QUARTENARY AMMONIUM COMPOUNDS)

14.3. Transport hazard class(es)

ADR/RID	class 8
ADR/RID	classification code C9
IMDG	class 8
ICAO	class/division 8
ADN	class 8
Transport labels	



14.4. Packing group

ADR/RID packing group II
IMDG packing group II
ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

IMDG Code segregation
group
None
EmS F-A, S-B
Emergency Action Code 2X

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: The product is not transported in bulk tankers.

15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

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

EU legislation Regulation

(EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Commission Regulation (EU) No 453/2010 of 20 May 2010.
Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the

protection of the health and safety of workers from the risks related to chemical agents at work (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Guidance

ECHA Guidance on the Application of the CLP Criteria.

ECHA Guidance on the compilation of safety data sheets.

Technical Guidance WM2: Hazardous Waste.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16	OTHER INFORMATION
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This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.

Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Abbreviations and acronyms:

- STOT - Specific Target Organ Toxicity
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

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