Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade Name: Lancer Strip LStrip

Revision date: 01 January 2021
Revision: 2

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

1.1 Product identifier

Lancer Strip LStrip

1.2 Uses/Application: Screen printing applications, oxidizer, bleaching agent

1.3 Details of the supplier of the safety data sheet

Address

Lancer Group International
311 Saulteaux Crescent
Winnipeg, Manitoba
Canada R3J 3C7
Telephone no: +1 (204) 889-7422
Fax no: +1 (204) 8310426
Information provided by: Product Safety Department
Email address of the person responsible for this SDS: cecilia@lancergroup.com

Emergency: New Zealand: 0800 POISON (0800 764 766)
Supplier Details
Hitec-Ink
Unit 4 / 231 Annex Road
Middleton 8025
Ph 03 6660100

1.4 24 Hour Emergency Number: +1 (888) 226-8832 CANUTEC

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EU) 1272/2008:

Physical hazards: Ox. Sol. 1-H271
Health hazards: Skin Corr. 1C-H314 Eye Dam. 1-H318 STOT RE 1-H372
Environmental hazards: Aquatic acute 1 – H400

2.1.2 Classification according to EU Directives 67/548/EC or 1999/45EC:
T:R48/25. O:R8. C:R34, Xi:R41. N:R50

2.2 Label Elements

EC number 232-197-6

Pictograms

Signal word Danger

Hazard statements

H271 May cause fire or explosion, strong oxidizer.
H314 causes severe skin burns and eye damage.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a poison center / doctor.
P273 Avoid release to the environment.

Supplementary precautionary statements

P220 Keep away from combustible materials.
P221 Take any precaution to avoid mixing with combustibles
P260 Do not breathe vapor/spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P283 Wear fire/flame resistant/retardant clothing.
P301+P330+P331IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
P304+P340 IF INHALED: Remove person to fresh air and and keep comfortable for breathing.
P306+P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P314 Get medical advice/attention if you feel unwell.
P363 Wash contaminated clothing before reuse.
P370+378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P371+P380+P375 In case of major fire and large quantities Evacuate area. Fight fire remotely due to the risk of explosion.
P391 Collect spillage.
P405 Store locked up
P501 Dispose of contents/container in accordance with national regulations.

2.3 Other Hazards
This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition / Information on ingredients

3.1 Substances

Product name	Sodium Periodate
REACH registration number	01-2119980983-20-0000
CAS number	7790-28-5
EC number	232-197-6
Chemical formula	NaIO4
Composition comments	Substance is inorganic

SECTION 4: First aide measures

4.1 Description of first aid measures

General information
First aid personnel should wear appropriate protective equipment during any rescue. Immediate first aid is imperative. Keep affected person under observation. Treat symptomatically. Chemical burns must be treated by a physician. Show this Safety Data Sheet to the medical

After inhalation
Unlikely route of exposure as the product does not contain volatile substances. Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable from breathing. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

After skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes and get medical attention. Show this Safety Data Sheet to the medical personnel.

After eye contact

Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

After ingestion

Move affected person to fresh air and keep warm and at rest position comfortable for breathing. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation

A single exposure may cause the following adverse effects: Severe irritation of nose and throat. Corrosive to the respiratory tract.

Ingestion

Causes severe burns. Gastrointestinal symptom, including upset stomach. Nausea, vomiting. Immediate first aid is imperative.

Skin contact

Causes severe burns.

Eye contact

Causes serious eye damage. Immediate first aid is imperative.

4.3 Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

In the event of fire use carbon dioxide, dry chemical agents, foam and water spray.

5.2 Special hazards arising from the substance or mixture

May cause or intensify fire; oxidiser. May ignite other combustible materials. Thermal decomposition or combustion products may include the following substances; Very toxic or corrosive gases and vapors.

5.3 Advice for firefighters

Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Avoid breathing fire gases and vapours. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases and vapours. Cool containers exposed to heat with water spray and remove them from fire area if it can be done without risk. Control run-off water by containing and keeping it out sewers and water courses. Inform the relevant authorities if environmental pollution occurs. (sewers, waterways, soil or air).

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep unnecessary and unprotected personnel away from spillage. Avoid inhalation of dust and contact with skin and eyes. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Follow precautions for safe handling described in this safety data sheet. No action shall be taken without appropriate training or involving any personal risk.

6.2 Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers, sewage, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

GENERAL. Keep combustible materials away from spillage. No smoking, sparks, flames or other sources of ignition near spillage. Do not use sawdust or other combustible material. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not touch or walk into spilled material. Avoid generation and spreading of dust. Wash thoroughly after dealing with spillage. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Small spillages: <10 kgs collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Flush contaminated area with plenty of water. Avoid releasing into the environment. Large spillages: >10 kgs Inform authorities if large amounts are involved. Avoid the spillage or runoff entering drains, swers or watercourses. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Dispose of water via a licensed waste disposal contractor.

6.4 Reference to other sections

Refer to section 8 for personal protection. See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Keep away from heat, sparks and open flame. Take any precaution to avoid mixing with combustibles, alkalis and organic materials. WARNING: when subject to intense compression at temperatures above 140°C Sodium Metaperiodate can undergo violent decomposition to Sodium Iodate with the release of gaseous oxygen. This is significantly lower than the normal decomposition temperature of 270°C.

Where there is a potential for extreme compression during processing e.g. during milling, tabletting or agitated pan-drying operations the maximum processing temperature should be kept below 140°C to minimize the risk of decomposition. Do not subject to grinding/shock/friction. Container must be kept tightly closed when not in use. Keep away from acid halide eg hydrochloric acid, may release highly toxic halogen. Reacts violently with amines and ammonia.

Do not eat, drink or smoke when using this product. Wash contaminated skin thoroughly after handling. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Contaminated work clothing should not be allowed out of workplace. Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Storage condition

Store in moderate cool, dry well ventilated area away from direct source of heat. Avoid freezing. Empty containers may contain product residues and should be handled accordingly. Position the container so that any labelling information is visible. Keep containers closed.

7.3 Specific end use(s)

For further information, see attached Exposure Scenario.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits:

Long term exposure limit (8-hour TWA): WEL 4mg/m3 resp. dust 10mg/m3 total dust
WEL = workplace Exposure Limit

8.2 Exposure controls

Appropriate Engineering control

Observe any occupational exposure limits for the product or ingredients. Provide adequate general and local exhaust ventilation. Ensure operatives are trained to minimise exposure. Ensure control measures are regularly inspected and maintained. In case of insufficient ventilation, wear suitable respiratory equipment.

Respiratory protection

Where risk assessment shows air purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Wear proper gloves when handling the product. Always ensure that gloves are free of defects and that they are stored and used correctly. The performance and effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Always wash hands before eating.

Eye protection

Wear safety goggles and face shield. Have an eye-wash station available in the work area.

Body protection

Cotton or cotton/synthetic overalls are usually suitable.

SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties

Form	powder
Colour	white
Odour	odourless
PH	pH 9diluted solution): 3.5 – 4.5 @ 5%
Melting point	not determined
Boiling point	not determined
Auto ignition temperature	not determined
Decomposition temperature	no data available
Explosive properties	no data available
Oxidizing properties	Strong oxidising agent
Flash point	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	not applicable
Density	Bulk ~ 2900 kg/m3
Water solubility	Soluble

9.2 Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity

10.1 Reactivity

The following materials may react strongly with the product. Reducing agents, Organic compounds, Flammable/combustible materials, Powder metal.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

Organic compounds, Strong reducing agents, Acids, Powdered metal. Keep away from acid halides eg. hydrochloric acid, may release highly toxic halogen. Reacts violently with amines and ammonia.

10.4 Conditions to avoid

Do not subject to grinding/shock/friction. Avoid exposure to high temperatures or direct sunlight.

10.5 Incompatible materials

Flammable/combustible materials. Strong acids. Strong reducing agents. Powdered metal

10.6 Hazardous Decomposition Products

Iodine, Oxygen

SECTION 11: Toxicological information

11.1 Information on toxicological effect

Corrosive to skin and eyes. Causes damage to organs through prolonged or repeated exposure if swallowed.

Experience in practice

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, ACGIH, NTP and OSHA. May be harmful if inhaled and may cause respiratory tract irritation. It can cause a slight eye irritation. May be harmful if absorbed through skin and may cause a slight skin irritation. Harmful if swallowed.

Other information

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. There are no data on the mixture itself.

SECTION 12: Ecological information

12.1 Toxicity

Dangerous for the environment. The product contains a substance which is very toxic to aquatic organisms.

SECTION 13: Disposal considerations

3.1 Waste treatment methods

Disposal recommendation for this product

Wastes and emptied containers should be classified in accordance with relevant national regulation. Waste category based on European Council Directive on Waste: 080313 (Appendix A – Consolidated European Waste catalogue) Classified as Non-Hazardous.

For further information contact your local waste authority. Dispose of in accordance with appropriate U.S. Federal State and local regulations of Canada and regulations of EU member countries.

Disposal recommendations for packaging

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned.

SECTION 14: Transport information

Land transport ARD/RID

UN No.	3085
Proper shipping name:	OXIDIZING SOLID, CORROSIVE, N.O.S (CONTAINS SODIUM PERIODATE)
Class	5.1
Subsidiary risk	8
Label	5.1
Packing Group	I
Tunnel restriction code:	(3)

Marine transport IMDG/GGVSee
Environmentally hazardous substance/marine pollutant

UN No.	3085
Proper shipping name:	OXIDIZING SOLID, CORROSIVE, N.O.S (CONTAINS SODIUM PERIODATE)
Class	5.1
Subsidiary risk	8
Label	5.1
Packing Group	I

Air transport ICAO/IATA

UN No.	3085
Proper shipping name:	OXIDIZING SOLID, CORROSIVE, N.O.S (CONTAINS SODIUM PERIODATE)
Class	5.1
Subsidiary risk	8
Label	5.1
Packing Group	I

Transport in bulk according to Annex II MARPOL 73/78 and the IBC code: Not applicable

Canadian TDG Shipping Description

UN No.	3085
Proper shipping name:	OXIDIZING SOLID, CORROSIVE, N.O.S (CONTAINS SODIUM PERIODATE)
Class	5.1
Subsidiary risk	8
Label	5.1
Packing Group	I

US DOT Classification

UN No.	3085
Proper shipping name:	OXIDIZING SOLID, CORROSIVE, N.O.S (CONTAINS SODIUM PERIODATE)
Class	5.1
Subsidiary risk	8
Label	5.1
Packing Group	I

SECTION 15: Regulatory information

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

T
he product is not on the list of controlled substances of the following:

Regulation (EC) No. 2037/2000
Regulation (EC) No. 850/2004
Regulation (EC) No. 1999/13

Other information

All components are contained in the TSCA inventory or exempted.
All components are contained in the AICS inventory.
All components are contained in the PICCS inventory.
All components are contained in the DSL inventory.
All components are contained in the ENCS inventory
All components are contained in the ECL inventory.
US EPA CERCLA hazardous Substances (40CFR 302): Not applicable
California Proposition 65: Not applicable
SARA Title III 302 Extremely Hazardous Substances: Not applicable
SARA Title III 313 Toxic Chemicals: Not applicable
National Pollutant Release Inventory (NPRI): Not applicable

SECTION 16: Other information

Supplemental information

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship. The information on this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are compiled with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

Therefore the user must assume all risks.