

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Star Engine Water Treatment TRAC 118 - PRODUCT CODE: 00910102

Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: Star Engine Water Treatment TRAC 118

Substance type: CLP Mixture

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

Use of the Substance/Mixture : CLOSED LOOP TREATMENT

Identified uses : Closed loop Cooling Water Treatment

Recommended restrictions on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet:

LOCAL COMPANY IDENTIFICATION

Star International, Star House, Turbine Business Park, Turbine Road, Birkenhead, Merseyside CH41 9BA United Kingdom Tel: +44 (0) 1244 504500

Email: enquiries@star-international.co.uk

For Product Safety information please contact:

1.4 Emergency telephone number:

Emergency telephone number : +44 (0) 1244 504 500

Date of Compilation/Revision: 17.08.2018

Version Number: 2.4

Section: 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302
Skin corrosion, Category 1A H314
Serious eye damage, Category 1 H318
Acute aquatic toxicity, Category 1 H400

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :







Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

Precautionary Statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P220 Keep/Store away from clothing and other

combustible materials.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER or doctor/ physician if you feel

unwell. Rinse mouth.

P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing.

Rinse skin with water/shower.

Hazardous components which must be listed on the label:

Sodium Nitrite Sodium Hydroxide Sodium Tolyltriazole

2.3 Other hazards

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration:
	EC-No.	(REGULATION (EC) No 1272/2008)	[%]
	REACH No.		
Sodium Nitrite	7632-00-0	Oxidizing solids Category 3; H272	30 - < 50
	231-555-9	Acute toxicity Category 3; H301	
	01-2119471836-27	Acute aquatic toxicity Category 1; H400	
Sodium Borate	13840-56-7	Reproductive toxicity Category 1B; H360FD	2.5 - < 3
	237-560-2		
Sodium Hydroxide	1310-73-2	Skin corrosion Category 1A; H314	2.5 - < 5
	215-185-5	Corrosive to metals Category 1; H290	
	01-2119457892-27		
Sodium Tolyltriazole	64665-57-2	Acute toxicity Category 4; H302	1 - < 2.5
	265-004-9	Skin corrosion Category 1B; H314	
	01-2119980062-42	Serious eye damage Category 1; H318 Chronic aquatic toxicity Category 2; H411	

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section: 4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled : Remove to fresh air.

Treat symptomatically.

Get medical attention if symptoms occur.

In case of skin contact Wash off immediately with plenty of water for at least 15

minutes.

Use a mild soap if available. Wash clothing before reuse.

Thoroughly clean shoes before reuse. Get medical attention immediately.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

Get medical attention immediately.

If swallowed Rinse mouth with water.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

If conscious, give 2 glasses of water. Get medical attention immediately.

Protection of first-aiders In event of emergency assess the danger before taking action.

Do not put yourself at risk of injury. If in doubt, contact

emergency responders. Use personal protective equipment as

required.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

Section: 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Not flammable or combustible.

Hazardous combustion

products

: Depending on combustion properties, decomposition products

may include following materials:

Carbon oxides

nitrogen oxides (NOx) Sulphur oxides

Oxides of phosphorus

5.3 Advice for firefighters

for firefighters

Special protective equipment : Use personal protective equipment.

Further information : Collect contaminated fire extinguishing water separately. This

> must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or

explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency

personnel

: Ensure adequate ventilation.

Keep people away from and upwind of spill/leak.

Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Advice for emergency

responders

: If specialised clothing is required to deal with the spillage, take

note of any information in Section 8 on suitable and unsuitable

materials.

6.2 Environmental precautions

Environmental precautions : Do

: Do not allow contact with soil, surface or ground water.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

: Stop leak if safe to do so.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

Flush away traces with water.

For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

6.4 Reference to other sections

See Section 1 for emergency contact information.

For personal protection see section 8.

See Section 13 for additional waste treatment information.

Section: 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

: Do not ingest. Do not breathe spray, vapour. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after

handling. Use only with adequate ventilation.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash

hazard.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.

consider the use of certified respiratory protection equipment meeting EU requirements (89/656/EEC, (EU) 2016/425), or equivalent, with filter type:A-P

Environmental exposure controls

General advice : Consider the provision of containment around storage

vessels.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : Light yellow

Odour : no data available

Flash point : 70 °C

pH : 11.4 - 11.8, 100 %

Odour Threshold : no data available

Melting point/freezing point : MELTING POINT: -8 °C

Initial boiling point and boiling

range

: 100 °C

Evaporation rate : no data available
Flammability (solid, gas) : no data available
Upper explosion limit : no data available
Lower explosion limit : no data available
Vapour pressure : no data available
Relative vapour density : no data available

Relative density : 1.001

Solubility(ies)

Water solubility : completely soluble
Solubility in other solvents : no data available
Partition coefficient: n- : no data available

octanol/water

Auto-ignition temperature : no data available
Thermal decomposition : no data available
Viscosity, dynamic : no data available
Viscosity, kinematic : no data available
Explosive properties : no data available
Oxidizing properties : no data available

9.2 Other information

no data available

8.2 Exposure controls

Appropriate engineering controls

Effective exhaust ventilation system.

Maintain air concentrations below occupational exposure standards.

Individual protection measures

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.Remove and wash contaminated clothing before reuse.Wash face, hands and any exposed skin thoroughly after handling.Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash

hazard.

Eye/face protection (EN

166)

: Safety goggles Face-shield

Hand protection (EN 374) : Recommended preventive skin protection

Gloves Nitrile rubber butyl-rubber

Breakthrough time: 1 – 4 hours

Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber

0.4 mm or equivalent (please refer to the gloves

manufacturer/distributor for advise).

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection

(EN 14605)

: Personal protective equipment comprising: suitable protective

gloves, safety goggles and protective clothing including

appropriate safety shoes

Respiratory protection (EN

143, 14387)

: When respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization, consider the use of certified respiratory protection equipment meeting EU requirements (89/656/EEC, (EU) 2016/425), or

equivalent, with filter type:P

Environmental exposure controls

General advice : Consider the provision of containment around storage

vessels.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : Straw-colored
Odour : odourless

Flash point

does not flash

pH : 13.2 - 14, 100 %

Odour Threshold : no data available

Melting point/freezing point : no data available

Initial boiling point and boiling : no data available

range

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : similar to water

Relative vapour density : no data available

Relative density : 1.305 - 1.325 (28 °C)

Solubility(ies)

Water solubility : completely soluble
Solubility in other solvents : no data available
Partition coefficient: n- : no data available

octanol/water

Auto-ignition temperature : no data available
Thermal decomposition : no data available

Viscosity, dynamic : no data available
Viscosity, kinematic : no data available
Explosive properties : no data available
Oxidizing properties : no data available

9.2 Other information

no data available

Section: 10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Amines

Strong acids

Reducing agents

10.6 Hazardous decomposition products

Hazardous decomposition products

Depending on combustion properties, decomposition products

may include following materials:

Carbon oxides nitrogen oxides (NOx)

Sulphur oxides

Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

exposure

Information on likely routes of : Inhalation, Eye contact, Skin contact

Toxicity

Product

Acute oral toxicity : Acute toxicity estimate : 540.5 mg/kg

Acute inhalation toxicity : There is no data available for this product. Skin corrosion/irritation : There is no data available for this product.

Serious eye damage/eye

irritation

: There is no data available for this product.

Respiratory or skin

sensitization

: There is no data available for this product.

Carcinogenicity : There is no data available for this product.

Reproductive effects : There is no data available for this product.

Germ cell mutagenicity : There is no data available for this product.

Teratogenicity : There is no data available for this product.

STOT - single exposure : There is no data available for this product.

STOT - repeated exposure : There is no data available for this product.

Aspiration toxicity : There is no data available for this product.

Components

Acute oral toxicity : Sodium Nitrite

LD50 rat: 180 mg/kg

Sodium Tolyltriazole LD50 rat: 1,310 mg/kg

Potential Health Effects

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Harmful if swallowed. Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal

use.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

Further information : no data available

Section: 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Product

Environmental Effects : Very toxic to aquatic life.

Toxicity to fish : no data available

Toxicity to daphnia and other

aquatic invertebrates

: no data available

Toxicity to algae : no data available

Components

Toxicity to fish : Sodium Nitrite

96 h LC50 Fish: 1 mg/l

Sodium Borate 96 h LC50: 74 mg/l

Sodium Tolyltriazole

96 h LC50 Cyprinodon variegatus (sheepshead

minnow): 55 mg/l

Test substance: Information given is based on data

obtained from similar substances.

Components

Toxicity to daphnia and other

aquatic invertebrates

: Sodium Hydroxide 48 h EC50: 40 mg/l

Sodium Tolyltriazole

48 h EC50 Daphnia galeata (water flea): 8.58 mg/l Test substance: Information given is based on data

obtained from similar substances.

Components

Toxicity to algae : Sodium Tolyltriazole

72 h LC50: 26.2 mg/l

12.2 Persistence and degradability

Product

no data available

Components

Biodegradability : Sodium Nitrite

Result: Not applicable - inorganic

Sodium Borate

Result: Not applicable - inorganic

Sodium Hydroxide

Result: Not applicable - inorganic

Sodium Tolyltriazole Result: Biodegradable

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Where possible recycling is preferred to disposal or

incineration.

If recycling is not practicable, dispose of in compliance with

local regulations.

Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

Guidance for Waste Code

selection

: Inorganic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local

regulations.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

14.1 UN number: UN 3266

14.2 UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium

Nitrite, Sodium Hydroxide)

14.3 Transport hazard class(es): 8
14.4 Packing group: ||
14.5 Environmental hazards: Yes

14.6 Special precautions for user: Not applicable.

Air transport (IATA)

14.1 UN number: UN 3266

14.2 UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium

Nitrite, Sodium Hydroxide)

14.3 Transport hazard class(es): 8
14.4 Packing group: ||
14.5 Environmental hazards: Yes

14.6 Special precautions for user: Not applicable.

Sea transport (IMDG/IMO)

14.1 UN number: UN 3266

14.2 UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium

Nitrite, Sodium Hydroxide)

14.3 Transport hazard class(es): 8
14.4 Packing group: ||

Annex II of MARPOL 73/78 and the IBC

14.5 Environmental hazards: Yes (Marine Pollutant)

14.6 Special precautions for user:
Not applicable.
Not applicable.

Code:

Section: 15. REGULATORY INFORMATION

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

INTERNATIONAL CHEMICAL CONTROL LAWS

CANADA

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

United States TSCA Inventory

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

NATIONAL REGULATIONS GERMANY

Water contaminating class : WGK 3

(Germany) Classification according to AwSV, Annex 1

15.2 Chemical Safety Assessment:

A Chemical Safety Assessment has been carried out for the substance(s) that makes/make up this material or for the material itself.

Section: 16. OTHER INFORMATION

Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification
Acute toxicity 4, H302	Calculation method
Skin corrosion 1A, H314	On basis of test data.
Serious eye damage 1, H318	On basis of test data.
Acute aquatic toxicity 1, H400	Calculation method

Full text of H-Statements

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H360FD	May damage fertility. May damage the unborn child.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS – Australian Inventory of Chemical Substances; ASTM – American Society for the Testing of Materials; bw – Body weight; CLP – Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR – Carcinogen, Mutagen or Reproductive Toxicant; DIN – Standard of the German Institute for Standardisation; DSL – Domestic Substances List (Canada); ECHA – European Chemicals Agency; ECNumber – European Community number; ECx – Concentration associated with x% response; ELx – Loading rate associated with x% response; EmS – Emergency Schedule; ENCS – Existing and New Chemical Substances (Japan); ErCx – Concentration associated with x% growth rate response; GHS – Globally Harmonized System; GLP – Good Laboratory Practice; IARC – International Agency for Research on Cancer; IATA – International Air Transport Association; IBC – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 – Half maximal inhibitory concentration; ICAO – International Civil Aviation Organization; IECSC – Inventory of Existing Chemical Substances in China; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; ISHL – Industrial Safety and Health Law (Japan); ISO – International Organisation for

Standardization; KECI – Korea Existing Chemicals Inventory; LC50 – Lethal Concentration to 50 % of a test population; LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL – International Convention for the Prevention of Pollution from Ships; n.o.s. – Not Otherwise Specified; NO(A)EC – No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; NOELR – No Observable Effect Loading Rate; NZloC – New Zealand Inventory of Chemicals; OECD – Organization for Economic Co-operation and Development; OPPTS – Office of Chemical Safety and Pollution Prevention; PBT – Persistent, Bioaccumulative and Toxic substance; PICCS – Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR – (Quantitative) Structure Activity Relationship; REACH – Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID – Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT – Self-Accelerating Decomposition Temperature; SDS – Safety Data Sheet; TCSI – Taiwan Chemical Substance Inventory; TRGS – Technical Rule for Hazardous Substances; TSCA – Toxic Substances Control Act (United States); UN – United Nations; vPvB – Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet

: IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

The possible key literature references and data sources which may have been used in conjunction with the consideration of expert judgment to compile this Safety Data Sheet: European regulations/directives (including (EC) No. 1907/2006, (EC) No. 1272/2008), supplier data, inter-net, ESIS, IUCLID, ERIcards, Non European official regulatory data and other data sources.

Prepared By : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Annex: Exposure Scenarios

Exposure Scenario: Closed loop Cooling Water Treatment

Life Cycle Stage : Industrial uses: Uses of substances as such or in preparations at industrial

sites

Sector of use : SU4 Manufacture of food products

SU5 Manufacture of textiles, leather, fur

SU6b Manufacture of pulp, paper and paper products

SU6a Manufacture of wood and wood products

SU7 Printing and reproduction of recorded media

SU8 Manufacture of bulk, large scale chemicals (including

petroleum products)

SU9 Manufacture of fine chemicals

SU 10 Formulation [mixing] of preparations and/ or re-packaging

(excluding alloys)

SU11 Manufacture of rubber products

SU12 Manufacture of plastics products, including compounding and

conversion

SU13 Manufacture of other non-metallic mineral products, e.g.

plasters, cement

SU14 Manufacture of basic metals, including alloys

SU15 Manufacture of fabricated metal products, except machinery

and equipment

SU17 General manufacturing, e.g. machinery, equipment, vehicles,

other transport equipment

SU23 Electricity, steam, gas water supply and sewage treatment

Contributing scenario controlling environmental exposure for:

Environmental release category : ERC7 Industrial use of substances in closed systems

Daily amount per site : 100 kg

Type of Sewage Treatment

Plant

none

Contributing scenario controlling worker exposure for:

Process category : **PROC8a** Transfer of substance or preparation (charging/ discharging)

from/ to vessels/ large containers at non-dedicated facilities

Exposure duration : 15 min

Operational conditions and risk

management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour: 1

Skin Protection : Yes: See Section 8

Respiratory Protection : No

Contributing scenario controlling worker exposure for:

Process category : **PROC3** Use in closed batch process (synthesis or formulation)

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Exposure duration : 60 min

Operational conditions and risk

Indoor

management measures

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour: 1

Skin Protection : Yes: See Section 8

Respiratory Protection : No

Contributing scenario controlling worker exposure for:

Process category : **PROC15** Use as laboratory reagent

Exposure duration : 60 min

Operational conditions and risk

management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour:

Skin Protection : Yes: See Section 8

Respiratory Protection : No

Contributing scenario controlling worker exposure for:

Process category : PROC28 Manual maintenance (cleaning and repair) of machinery

Exposure duration : 240 min

Operational conditions and risk

management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour: 1

Skin Protection : Yes: See Section 8

Respiratory Protection : No



Star International, Star House, Turbine Business Park, Turbine Road, Birkenhead, Merseyside CH41 9BA United Kingdom

Tel: +44 (0) 1244 504500

Email: enquiries@star-international.co.uk Web: www.star-international.co.uk