HURST SCIENTIFIC

Safety Data Sheet
Nuclear Fast Red

SECTION 1: Identification

GHS Product identifier

Product name	Nuclear Fast Red
Product number	NFR-500M
Brand	Hurstchem

Other means of identification

Synonyms – Kernechtrot

Recommended use of the chemical and restrictions on use

Laboratory Reagent

Supplier's details

Name	Hurst Scientific
Address	2 Transit Place 6112 Forrestdale WA Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

Emergency phone number

Australian Poisons Information Centre 131 126
Australian Emergency Services 000

SECTION 2: Hazard identification

General hazard statement

Classified as a NON-Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classification of the substance or mixture

GHS classification in accordance with: Model WHS Regulations 2016

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards which do not result in classification
Classified as a NON-Dangerous goods according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

SECTION 3: Composition/information on ingredients

Mixtures

This mixture does not contain any substances requiring notification.

Hazardous components

1. Water

Concentration	Balance
EC no.	231-791-2
CAS no.	7732-18-5

2. Aluminum sulfate hexadecahydrate

Concentration	5 % (volume)
CAS no.	16828-11-8

3. Nuclear Fast Red

Concentration	< 1 % (volume)
EC no.	229-088-0
CAS no.	6409-77-4

4. Thymol

Concentration	< 0.1 % (volume)
EC no.	201-944-8
CAS no.	89-83-8
Index no.	604-032-00-1

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	Evacuate to fresh air immediately. If unconscious place in recovery position, provide artificial respiration if breathing ceases. Seek medical attention.
In case of skin contact	Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention.

In case of eye contact	Flush eyes with copious amounts of water for at least 15 minutes. If irritation develops or persists, seek medical attention.
If swallowed	DO NOT induce vomiting. Wash mouth out with copious amounts of water and seek medical attention.

Personal protective equipment for first-aid responders
Eye wash station, safety shower and First Aid kit.

Indication of immediate medical attention and special treatment needed, if necessary
Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Use media suitable for other material involved in fire.

Specific hazards arising from the chemical
Toxic gases may evolve.

Special protective actions for fire-fighters
Wear SCBA (Self-Contained Breathing Apparatus) and full protective equipment.

Further information
Hazchem code None allocated.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear appropriate protective equipment and ensure adequate ventilation.

Methods and materials for containment and cleaning up
Absorb with vermiculite or similar and place into a suitably labelled container for later disposal. Do not contaminate drains or waterways.

SECTION 7: Handling and storage

Precautions for safe handling
Use only in an adequately ventilated area. Wear appropriate protective clothing to avoid any exposure and practice good personal hygiene.

Conditions for safe storage, including any incompatibilities
Store in a cool, dry, well-ventilated area away from direct sunlight.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls
Ensure an adequate ventilation or exhaust system is in place.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Safety glasses or goggles.

Skin protection
Gloves and laboratory coat.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Color	Red
Odor	Odourless
Melting point/freezing point	<0°C
Boiling point or initial boiling point and boiling range	100°C
Flammability	Non-flammable
Lower and upper explosion limit/flammability limit	Not applicable
pH	Not available
Solubility	Water soluble
Vapor pressure	23hPa @ 20°C
Density and/or relative density	Not available
Relative vapor density	Not available

SECTION 10: Stability and reactivity

Reactivity
Non-reactive under recommended conditions for use and storage.

Chemical stability
Stable under recommended conditions for use and storage.

Possibility of hazardous reactions
Polymerisation will not occur.

Conditions to avoid
High temperatures and incompatibles.

Incompatible materials
Oxidisers, strong alkalis and acids.

Hazardous decomposition products
Toxic gases may evolve.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
HEALTH EFFECTS:
Eye Contact May cause irritation resulting in redness, pain and lacrimation.
Skin Contact May cause irritation resulting in itching and redness.
Inhalation May cause irritation of the respiratory tract.
Ingestion May cause irritation to the gastrointestinal tract, resulting in nausea, vomiting and diarrhoea.

Skin corrosion/irritation
No classification.

Serious eye damage/irritation
No classification.

Respiratory or skin sensitization
No classification.

Germ cell mutagenicity
No classification.

Carcinogenicity
No product contained in this mixture is an IARC listed chemical.

Reproductive toxicity
No classification.

Specific target organ toxicity (STOT) - single exposure
No classification.

Specific target organ toxicity (STOT) - repeated exposure
No classification.

Aspiration hazard
No classification.

Additional information

SECTION 12: Ecological information

Toxicity
Not available.

Persistence and degradability
Not available.

Bioaccumulative potential
Not expected to bio-accumulate.

Mobility in soil
Not available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Dispose of in accordance with local authority guidelines.

SECTION 14: Transport information

UN Number	None
UN Proper Shipping Name	None
Transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None
Transport in bulk according to IMO instruments	None

SECTION 15: Regulatory information

Chemical Safety Assessment

- Poison Schedule: Not scheduled.

SECTION 16: Other information

Further information/disclaimer
This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.

Preparation information
References
1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Canprint: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).