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ReAgent

SAFETY DATA SHEET NITRIC ACID LRG 1.42 SG

According to Regulation (EC) No 1907/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME NITRIC ACID LRG 1.42 SG
 PRODUCT NO. 1211
 APPLICATION General chemical reagent
 SUPPLIER Reagent Chemical Services
 18 Aston Fields Road
 Whitehouse Industrial Estate
 Runcorn
 Cheshire WA7 3DL
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2 HAZARDS IDENTIFICATION

Causes severe burns.

CLASSIFICATION C;R35.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
NITRIC ACID ...%	231-714-2	7697-37-2	60-100%	O;R8 C;R35

The Full Text for all R-Phrases are Displayed in Section 16

EC No. 231-714-2

CAS-No. 7697-37-2

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Get medical attention immediately!

SKIN CONTACT

Immediately remove contaminated clothing and wash before re-use. Rinse the skin immediately with lots of water. Get medical attention immediately.

EYE CONTACT

May cause permanent damage if eye is not immediately irrigated. Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention immediately.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

The product is non-combustible. Water spray.

UNUSUAL FIRE & EXPLOSION HAZARDS

May ignite combustible materials.

SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed. Oxides of: Nitrogen.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

NITRIC ACID LRG 1.42 SG**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Small Spillages Absorb with inert, non-combustible material. Large Spillages Dam and absorb spillages with sand, earth or other inert, non-combustible material. Collect spillage in sealable containers. Neutralise with aqueous soda ash slurry (CAUTION - VIGOROUS REACTION, HEAT GENERATED) and leave for 24 hours before sealing tightly. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Wash thoroughly after dealing with a spillage.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place. Oxidising material - Keep away from flammable and combustible materials.

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
NITRIC ACID ...%	WEL	2 ppm	5.2 mg/m ³	4 ppm	10 mg/m ³	

WEL = Workplace Exposure Limit.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded. Work in fume cupboard.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator.

HAND PROTECTION

Use full-length gloves. Viton rubber (fluor rubber). Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear goggles/face shield.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless to pale yellow		
ODOUR	Pungent		
SOLUBILITY	Miscible with water.		
BOILING POINT (°C)	About 86	MELTING POINT (°C)	-42
RELATIVE DENSITY	1.42	VAPOUR PRESSURE	62 mm Hg 25
pH-VALUE, CONC. SOLUTION	<1		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions.

NITRIC ACID LRG 1.42 SG**MATERIALS TO AVOID**

Flammable/combustible material. Oxidizable substances. Organic solvents. Alcohols, glycols. Ketones. Aldehydes. Organic nitro compounds. Azo, diazo, hydrazine comps. Metals. Bases, alkalies (inorganic). Bases, alkalies (organic). Alkali metals. Alkali earth metals. Ammonia. Acids. Inorganic hydrides. Inorganic nitrides. Hydrogen peroxide.

HAZARDOUS DECOMPOSITION PRODUCTS

Nitrous gases (NO_x).

11 TOXICOLOGICAL INFORMATION**INHALATION**

Corrosive. Causes coughing, dyspnoea. May lead to formation of oedemas in the respiratory tract.

INGESTION

Corrosive. Even small amounts may cause serious damage. Causes burns to the mouth, throat, oesophagus and gastrointestinal tract. Bloody vomiting and possibly death. Severe pain

SKIN CONTACT

Causes burns.

EYE CONTACT

Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

ACUTE FISH TOXICITY

LC50>500mg/L (Nitrates).

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

UK ROAD CLASS	8	UK ROAD PACK GR.	II
PROPER SHIPPING NAME	NITRIC ACID	ADR CLASS	Class 8: Corrosive substances.
UN NO. ROAD	2031	ADR LABEL NO.	8
ADR CLASS NO.	8	RID CLASS NO.	8
ADR PACK GROUP	II	UN NO. SEA	2031
HAZCHEM CODE	2PE	IMDG PAGE NO.	8
RID PACK GROUP	II	EMS	F-A, S-B
IMDG CLASS	8	MARINE POLLUTANT	No.
IMDG PACK GR.	II	AIR CLASS	8
MFAG	See Guide		
UN NO. AIR	2031		
AIR PACK GR.	II		

15 REGULATORY INFORMATION**LABELLING**

Corrosive

NITRIC ACID LRG 1.42 SG

CONTAINS NITRIC ACID 70%

RISK PHRASES

R35 Causes severe burns.

SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S24/25 Avoid contact with skin and eyes.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S60 This material and its container must be disposed of as hazardous waste.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

NATIONAL REGULATIONS

Control of Substances Hazardous to Health Regulations 2002 (as amended)

16 OTHER INFORMATION

REVISION COMMENTS

General rewrite Change to section 1

REVISION DATE 23/09/2008

REV. NO./REPL. SDS GENERATED 0

SDS NO. 10798

SAFETY DATA SHEET STATUS

Approved.

RISK PHRASES IN FULL

R35 Causes severe burns.

R8 Contact with combustible material may cause fire.