

DARRANT CHEMICALS

SAFETY DATA SHEET

PHOSPHORIC ACID >25 ...%

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

1.1. Product identifier

Product name PHOSPHORIC ACID >25 ...%

Product number 115

Synonyms; trade names ORTHOPHOSPHORIC ACID, PHOSPHORIC ACID >25%, PHOSPHORIC ACID 85% SOL, PHOSPHORIC ACID 75% SOL, PHOSPHORIC ACID 75% SOL THS, PHOSPHORIC ACID FG 85% SOL, PHOSPHORIC ACID FG 75% SOL , PHOSPHORIC ACID PH 85% SOL THS, PHOSPHORIC ACID 71%, PHOSPHORIC ACID 80% SOLUTION, PHOSPHORIC ACID 75% FG, PHOSPHORIC ACID 45%, PHOSPHORIC ACID 45% SOL, PHOSPHORIC ACID 1650, PHOSPHORIC ACID 40% SOL, PHOSPHORIC ACID 35%, PHOSPHORIC ACID 75% SOL TE INNS, PRAYPHOS P5 75%, PHOSPHORIC ACID FG 81%

REACH registration number 01-2119485924-24

CAS number 7664-38-2

EU index number 015-011-00-6

EC number 231-633-2

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

Identified uses Fertilizer Detergent. Chemical Intermediate

1.3. Details of the supplier of the safety data sheet

Supplier DARRANT CHEMICALS
Unit 1
Witham Point Business Park
Wavell Drive
Lincoln
LN3 4PL

1.4. Emergency telephone number

Emergency Contact Number +44 1274 267346 (Office Hours)

Emergency Contact Number +441865 407333 (Outside Office Hours) Sds No. 115

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Health hazards

Skin Corr. 1B - H314

Classification (67/548/EEC or 1999/45/EC)

C;R34

2.2. Label elements

EC number 231-633-2

Pictogram

PHOSPHORIC ACID >25 ...%**Signal word**

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe vapour/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

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	PHOSPHORIC ACID >25 ...%		
REACH registration number	01-2119485924-24		
EU index number	015-011-00-6	CAS number	7664-38-2
EC number	231-633-2		

Composition comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation**

Remove affected person from source of contamination. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues. **Eye contact**

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed**Inhalation**

Coughing, chest tightness, feeling of chest pressure.

Ingestion

May cause chemical burns in mouth and throat.

Skin contact

May cause serious chemical burns to the skin.

PHOSPHORIC ACID >25 ...%

Eye contact

Severe irritation, burning and tearing.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor

No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards

Oxides of the following substances: Phosphorus.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions

Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. **6.4. Reference to other sections**

Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Avoid spilling. Avoid contact with skin and eyes. Mechanical ventilation or local exhaust ventilation may be required.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep only in the original container. Keep container tightly closed. Suitable container materials: Polyethylene. Stainless steel.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

PHOSPHORIC ACID >25 ...%**Occupational exposure limits**

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments

WEL = Workplace Exposure Limits

DNEL Industry - ; Long term : 2.92 mg/m³

8.2. Exposure controls**Protective equipment****Eye/face protection**

The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

It is recommended that chemical-resistant, impervious gloves are worn.

Other skin and body protection

Wear rubber apron. Wear rubber footwear.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties**9.1. Information on basic physical and chemical properties****Appearance**

Viscous liquid. Liquid.

Colour

Colourless.

Odour

Acrid.

pH

pH (concentrated solution): <2

Melting point

-11.8 - 21.1°C

Initial boiling point and range

101 - 158°C @

Bulk density

1752 kg/m³

Solubility(ies)

Miscible with water. Soluble in the following materials: Ethanol.

Viscosity

62 mPa s @ 25°C

9.2. Other information**Molecular weight**

98

SECTION 10: Stability and reactivity**10.1. Reactivity**

PHOSPHORIC ACID >25 ...%

There are no known reactivity hazards associated with this product.

10.2. Chemical stability**Stability**

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous

reactions No information required.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials**Materials to avoid**

Strong alkalis.

10.6. Hazardous decomposition products

Oxides of the following substances: Phosphorus.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Inhalation**

Irritating to respiratory system. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

Ingestion

May cause chemical burns in mouth, oesophagus and stomach.

Skin contact

May cause serious chemical burns to the skin.

Eye contact

Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

SECTION 12: Ecological Information Ecotoxicity

The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

12.1. Toxicity 12.2. Persistence and degradability 12.3. Bioaccumulative potential 12.4. Mobility in soil**Mobility**

The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.

12.5. Results of PBT and vPvB assessment 12.6. Other adverse effects**SECTION 13: Disposal considerations****13.1. Waste treatment methods****General information**

When handling waste, the safety precautions applying to handling of the product should be considered. Do not puncture or incinerate, even when empty.

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information**14.1. UN number**

UN No. (ADR/RID) 1805

UN No. (IMDG) 1805

UN No. (ICAO) 1805

UN No. (ADN) 1805

14.2. UN proper shipping name

PHOSPHORIC ACID >25 ...%

Proper shipping name PHOSPHORIC ACID, SOLUTION (ADR/RID)
 Proper shipping name PHOSPHORIC ACID, SOLUTION (IMDG)

Proper shipping name PHOSPHORIC ACID, SOLUTION
 (ICAO) Proper shipping name (ADN) PHOSPHORIC ACID,
 SOLUTION

14.3. Transport hazard class(es)

ADR/RID class 8
 ADR/RID classification code C1
 ADR/RID label 8
 IMDG class 8
 ICAO class/division 8
 ADN class 8

Transport labels**14.4. Packing group**

ADR/RID packing group III
 IMDG packing group III
 ICAO packing group III
 ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine
 pollutant No.

14.6. Special precautions for user

EmS F-A, S-B
 ADR transport category 3 Emergency Action Code 2R
 Hazard Identification Number 80 (ADR/RID) Tunnel restriction
 code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

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).

Guidance

CHIP for everyone HSG228. Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment**SECTION 16: Other information Revision comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 03/08/2012
 Revision 03

PHOSPHORIC ACID >25 ...%

SDS number	115
SDS status	Approved.
Signature	Jitendra Panchal
Risk phrases in full	R34 Causes burns.
Hazard statements in full	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.