

# SAFETY DATA SHEET

## 1 IDENTIFICATION OF THE PREPARATION AND COMPANY

**PRODUCT NAME AND/OR CODE:** **HNCO68000**  
**INTENDED USE:** **Fire retardant additive for coatings used on timber.**

**NAME & FULL ADDRESS:** **Arch Coatings UK Ltd**  
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## 2 HAZARDS IDENTIFICATION

The product is not classified as Dangerous according to the CHIP Regulations (also refer to Section 11).

## 3 COMPOSITION/INFORMATION OF INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the CHIP Regulations or assigned Workplace Exposure Limits.

Substance	Conc Range %	Symbol Letter	R Phrases <sup>(5)</sup>	Workplace Exposure Limits (WEL's)				Notations <sup>(3)</sup>
				8 hr TWA <sup>(1)</sup>		15 min STEL <sup>(2)</sup>		
				ppm <sup>(4)</sup>	mg/m <sup>3(4)</sup>	ppm <sup>(4)</sup>	mg/m <sup>3(4)</sup>	
Tris (2-chloro-1-methylethyl) phosphate (CAS: 13674-84-5)	50-100	X	22	(6)	(6)	(6)	(6)	

- Notes:**
- (1) Long term exposure limit – 8 hour time weighted average.
  - (2) Short term exposure limit – 15 minute reference period.
  - (3) 'Sk' indicates a risk of absorption through the skin. 'Sen' indicates a respiratory sensitiser.
  - (4) 'WEL's' are taken from EH40, except those marked 'SUP', which are assigned by the supplier of the substance. 'Bmgv' indicates that biological monitoring may be appropriate. Biological Monitoring Guidance Values are listed in EH40.
  - (5) For full text see Section 15.
  - (6) Values have not been assigned by the supplier.

## 4 FIRST AID MEASURES

**General:**  
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:**  
Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recover position and seek medical advice.

**Eye Contact:**

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding eyelids apart and **seek medical advice**.

**Skin Contact:**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner.  
**DO NOT USE SOLVENTS OR THINNERS.**

**Ingestion:**

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do **NOT** induce vomiting.

**5 FIRE FIGHTING MEASURES****Extinguishing Media:**

RECOMMENDED: Alcohol resistant foam, CO<sub>2</sub> powder, water spray/mist  
NOT TO BE USED: Water jet

**Recommendations:**

Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Exposure to decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or watercourses.

**6 ACCIDENTAL RELEASE MEASURES**

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent and avoid the use of solvents.

If the product enters drains or sewers the local Water Company should be contacted immediately; in case of contamination of streams, rivers or lakes, the relevant environment agency.

**7 HANDLING AND STORAGE****Handling:**

Prevent air-borne concentrations higher than the workplace exposure limits.

Keep the container tightly closed. Exclude sources of heat, sparks and open flame.  
Avoid skin and eye contact. Avoid inhalation of vapour and spray mist.  
Smoking, eating and drinking should be prohibited in areas of storage and use.  
For Occupational Exposure Controls see Section 8.

Never use pressure to empty: The container is not a pressure vessel.  
Always keep in containers made of the same material as the supply container.  
Good housekeeping standards including the regular safe removal of waste materials and regular maintenance of spray booth filters will minimise fire hazards.

The Manual Handling Operations Regulations may apply to the handling of containers of the product. Refer to the guide weight indicated on the container when carrying out assessments.

**Storage:**

Product is hygroscopic (absorbs moisture) and should be stored in sealed moisture free containers.  
Observe the label precautions. Store between 5 and 25°C in a dry, well-ventilated place, away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers that are opened should be properly resealed and kept upright to prevent leakage. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

**8****EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Limits:**

(see Section 3).

**Exposure Controls:**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates below the relevant workplace exposure limits, suitable respiratory protective equipment should be worn (see Personal Protection below).

**Personal Protection:**

**All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.**

**Respiratory Protection:**

Local exhaust ventilation and good general extraction should be used to control any build up of airborne material.

**Hand Protection:**

When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect exposed areas of the skin, but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

**Eye Protection:**

Eye protection designed to protect against liquid splashes should be worn.

**Skin Protection:**

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

Regular skin inspection of users of this product is recommended.

**ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.**

**9****PHYSICAL AND CHEMICAL PROPERTIES**

Physical state:	Liquid		
Flash Point:	Not below its decomposition temperature		
Viscosity:	65 cps	Method:	Brookfield at 25°C
Specific Gravity:	1.29	Method:	weight of 100 ml at 20°C
Vapour Density (air=1):	Not Determined		
Lower Explosion Limit:	Not Determined		
Boiling Point (°C):	Not Determined		
Solubility in Water:	Insoluble		
VOC g/L	0		

**10****STABILITY AND REACTIVITY**

Stable under the recommended storage and handling conditions (see Section 7). In a fire, hazardous decomposition products such as smoke, carbon monoxide and carbon dioxide and oxides of nitrogen may be produced.

Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

## 11 TOXICOLOGICAL INFORMATION

Acute oral LD<sub>50</sub> (Rat) > 2000mg/Kg.

Limit test – some mortalities at this dose. Literature values for Rat oral toxicity range between 1000 – 2500 mg/Kg.  
May cause some irritation of the mouth and upper digestive tract. Ingestion of large quantities may cause systemic effects.

Acute dermal toxicity LD<sub>50</sub> (Rat) > 7.9mg/l

May cause skin irritation if exposure is prolonged or repeated.

Eye: Not classified as an irritant when tested in the rabbit.

Inhalation: LC<sub>50</sub> (Rat) > 7.19 mg/l

May irritate the nose and upper respiratory tract.

Mutagenicity: Negative in *in vitro* and *in vivo* tests.

## 12 ECOLOGICAL INFORMATION

Aquatic toxicity:

LC<sub>50</sub> 84 ppm (96 hr; Bluegill Sunfish)

LC<sub>50</sub> 51 ppm (96 hr; Fathead Minnow)

LC<sub>50</sub> 131 mg/l (48 hr; Daphnia magna)

Chronic Study – Daphnia :

21 day EC<sub>50</sub> (Immobilisation) parental = 40 mg/l

21 day EC<sub>50</sub> (Reproduction) between 32 and 56 mg/l

NOEC 32 mg/l

Biodegradation :

Not expected to be readily biodegradable.

Inherent Biodegradability study (Modified MITD):

21% degradation after 28 days, therefore, this product may be considered to be inherently biodegradable.

Air Pollution Control requirements of regulations made under the Environmental Protection Act and Pollution Prevention and Control Act may apply to the use of this product (see Section 9 for VOC level).

## 13 DISPOSAL CONSIDERATIONS

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using the information provided in this safety data sheet, advice should be obtained from the relevant environment agency, whether the special waste regulations apply.

## 14 TRANSPORT INFORMATION

The product is not classified as dangerous for carriage.

### Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of accident or spillage.

## 15 REGULATORY INFORMATION

This product is determined as not being dangerous according to the CHIP Regulations.

<b>R No</b>	<b>Phrase</b>
R22	HARMFUL IF SWALLOWED
<b>S No</b>	<b>Phrase</b>
S46	IF SWALLOWED SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.
S2	KEEP OUT OF REACH OF CHILDREN
S23	DO NOT BREATHE VAPOUR/SPRAY
S51	USE ONLY IN WELL VENTILATED AREAS

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. The provisions of the Health and Safety at Work etc Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

## 16 OTHER INFORMATION

The information contained in this safety data sheet is provided in accordance with the requirements of CHIP Regulations.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the 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 complied with.

The information contained in this safety data sheet is based on the present state of knowledge and current national 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.

Further information and relevant advice can be found in the following:

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002: 2677)  
COSHH Essentials: easy steps to control chemicals, HSG193  
The Manual Handling Operations Regulations 1992 (SI 1992: 2793)  
The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992: 2839)  
EH40/## Occupational Exposure Limits – HSE Books  
A Guide to Working with Solvents, INDG 272  
HSE website [www.hse.gov.uk](http://www.hse.gov.uk)