

SAFETY DATA SHEET

1 IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME AND/OR CODE: **HNAO539000**
INTENDED USE: Fire retardant thinners for use with coatings for use on timber

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2 HAZARDS IDENTIFICATION

The product is classified as highly flammable and harmful according to the CHIP Regulations.
Harmful by inhalation.
Highly flammable.
Irritating to eyes and Skin.
Harmful: Danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.
Possible Risk of harm to the unborn child.
Harmful, may cause lung damage if swallowed.

3 COMPOSITION/INFORMATION OF INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the CHIP Regulations or which are assigned workplace exposure limits.

Substance	Conc Range %	Symbol Letter	R Phrases ⁽⁵⁾	Workplace Exposure Limits (WEL's)				Notations ⁽³⁾
				8 hr TWA ⁽¹⁾		15 min STEL ⁽²⁾		
				ppm ⁽⁴⁾	mg/m ³⁽⁴⁾	ppm ⁽⁴⁾	mg/m ³⁽⁴⁾	
Tris (2-chloro-1-methylethyl) phosphate (CAS: 13674-84-5)	50-100	X	22	(6)	(6)	(6)	(6)	
Butan-2-one (CAS: 78-93-3)	25-50	F, Xi	11, 36, 66, 67	200	600	300	899	Sk, Bmgv
Isobutyl Acetate (CAS: 110-19-0)	25-50	F	11, 66	150	724	187	903	
Toluene (CAS:108-88-3)	10-25	F, Xn	11,20,38, 48/20,63, 65,67	50	191	150	574	Sk
4-Methyl Pentan-2-one (CAS:108-10-1)	2.5-10	F, Xn	11, 20, 36/37, 66	50	208	100	416	Bmgv, Sk

- 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.

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, CO₂ 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:**

Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the workplace exposure limits.

Additionally, the product should only be used in areas which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Keep the container tightly closed. Exclude sources of heat, sparks and open flame. Non-sparking tools should be used.

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 risks of spontaneous combustion and other fire hazards.

The product may charge electrostatically. Always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be electrically conductive.

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:

The storage and use of this product is subject to the requirements of the Dangerous Substances and Explosive Atmosphere Regulations 2002 (DSEAR). Up to 50 litres of such highly flammable liquids may be kept in a workroom provided they are kept in a fireproof cupboard or bin. Larger quantities must be kept in a separate storeroom conforming to the structural requirements of the regulations. Further guidance is contained in the Storage of Dangerous Substances, Approved Code of Practice and Guidance.

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. The principles contained in the Storage of Dangerous Substances, Approved Code of Practice and Guidance should be observed when storing this product. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

(see Section 2).

Engineering Measures:

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 and/or solvent vapours 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:

Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit and engineering controls and methods cannot reasonably be improved.

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.

Environmental exposure control:

See Section 12 for detailed information.

9**PHYSICAL AND CHEMICAL PROPERTIES**

Physical state:	Liquid		
Flash Point:	Below 21°C	Method:	Closed cup
Viscosity:	N/A	Method:	Din 4 at 20°C
Specific Gravity:	0.974	Method:	weight of 100 ml at 20°C
Vapour Density (air=1):	2.4		
Lower Explosion Limit:	1.3 % VOL		
Boiling point (°C):	79.6		
Solubility in Water:	7.00 %		
VOC in g/l:	682		

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.
Keep dirty wipers in an enclosed container.

11**TOXICOLOGICAL INFORMATION**

There is no data available on the product itself. The product has been assessed following the conventional method of CHIP and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. See Sections 3 and 15 for details of the resulting hazard classification.

Exposure to organic solvent vapours in excess of the stated workplace exposure limit may result in adverse health effects, such as irritation of the mucous membrane and the respiratory system and adverse effects on the kidney, liver and central nervous systems. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the product may cause removal of natural fats from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage.

12**ECOLOGICAL INFORMATION**

There is no data available on the product itself.

The product has been assessed following the conventional method of CHIP and is not classified as dangerous for the environment, but may contain substances so classified (see section 2 for details).

The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. The Air Pollution Control requirements of regulations made under the Environmental Protection 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

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.

Transport Details:

UN 1263: Paint related product

CLASS 3 - PACKING GROUP II

Ensure drivers have adequate training.

15 REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with the CHIP Regulations as follows.:

Contains Toluene and 4-Methyl Pentan-2-one.

R Phrase No

R Phrase No	Text
R11	HIGHLY FLAMMABLE
R20	HARMFUL BY INHALATION
R36/38	IRRITATING TO EYES AND SKIN
R48/20	HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION AND IN CONTACT WITH SKIN
R63	POSSIBLE RISK OF HARM TO THE UNBORN CHILD
R65	HARMFUL, MAY CAUSE LUNG DAMAGE IF SWALLOWED

S Phrase No

S Phrase No	Text
S16	KEEP AWAY FROM SOURCES OF IGNITION – NO SMOKING
S33	TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES
S23	DO NOT BREATHE VAPOURS OR SPRAY
S24/25	AVOID CONTACT WITH SKIN AND EYES
S46	IF SWALLOWED SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.
S51	USE ONLY IN WELL VENTILATED AREAS
S43	IN CASE OF FIRE, USE POWDER EXTINGUISHER- NEVER USE WATER
S9	KEEP CONTAINER IN A WELL VENTILATED PLACE

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

Text of other R phrases listed in Section 2.

R Phrase No	Text
R22	HARMFUL IF SWALLOWED
R36/37	IRRITATING TO EYES AND RESPIRATORY SYSTEM
R66	REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS

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 Dangerous Substances and Explosive Atmosphere Regulations DSEAR 2002: Approved Code of Practice and Guidance, L138
Storage of Dangerous Substances DSEAR 2002: Approved Code of Practice and Guidance, L135
Control and Mitigation Measures, DSEAR 2002: Approved Code of Practice and Guidance, L136
Safe Maintenance, Repair and Cleaning Procedures, DSEAR 2002: Approved Code of Practice and Guidance, L137
Design of Plant, Equipment and Workplaces, DSEAR 2002: Approved Code of Practice and Guidance L134
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