



SAFETY DATA SHEET

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

Identification of the substance or preparation:

Name: GARIA 601 M-22.

Product code: UK02816.

Company/undertaking identification:

Registered company name: Houghton PLC.

Address: Beacon Road, Trafford Prk, ..Manchester, M17 1AF..

Telephone: + 44 161 874 5000. Fax: + 44 161 874 5001.

datasheets@uk.houghtonglobal.com

Emergency telephone: '+44 161 874 2077.

Association/Organisation: .

Use of the substance/preparation:

Neat oil for machining operations

2 - HAZARDS IDENTIFICATION

This product is not classified as flammable. Refer to the recommendations regarding the other products present on the site

This preparation is not classified as hazardous to health by directive 1999/45/EC.

Other data:

High risk of slipping due to leakage/spillage of product.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

INDEX	CAS	EC	Name	Symb.	R:	%
M0435	78-42-2	201-116-6	TRIS(2-ETHYLHEXYL) PHOSPHATE	Xi	38	2.5 <= x % < 10

Other substances with occupational exposure limits:

No known substance in this category present.

Other components:

This product contains complex oil-derived substances. According to directive 94/69/EC (21st ATP to directive 67/548/EC) classification and labelling as carcinogen is not required (Note L or note P applies).

INDEX	CAS	EC	Name	Symb.	R:	%
649-455-00-2	64741-89-5	265-091-3	DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PARAFFINIC			50 <= x % < 100
649-467-00-8	64742-54-7	265-157-1	DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC			0 <= x % < 1

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

In the event of exposure by inhalation:

In case of big quantities inhaled, move affected person to fresh air, keep warm and allow to rest.

In the event of splashes or contact with eyes:

Rinse eyes thoroughly with clean and fresh water.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water.

Do not use solvents or thinners.

If a high-pressure oil jet comes into contact with skin, there is a risk of infiltration into body tissues. The patient must be taken to hospital, even if no injury is visible.

In the event of swallowing:

In case of swallowing, keep the patient at rest and contact a doctor.

Do not induce vomiting.

Information for the doctor:

Treat symptomatically

5 - FIRE-FIGHTING MEASURES**Suitable extinguishing media:**

Water spray or -fog, foam, CO₂, dry chemical powder

Extinguishing media which must not be used for safety reasons:

Water jet or under pressure.

Special protective equipment for fire-fighters:

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Combustion produces a complex mixture of gases and airborne particulates, including:

CO_x

SO_x

PO_x

NO_x

unidentified organic and inorganic compounds

6 - ACCIDENTAL RELEASE MEASURES**Personal precautions:**

Consult the safety measures listed under headings 7 and 8.

Environmental precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Methods for cleaning up:

Adsorb or contain spillages with sand, earth or spill control materials.

Pick up the liquid with pumps or shovels.

Clean contaminated floors and objects thoroughly observing environmental regulations.

Clean preferably with a detergent, do not use solvents.

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Conditions according to local authorities.

Handling:

Handle in well-ventilated areas.

Avoid direct contact with the product.

Fire prevention:

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

When not in use, keep the containers tightly closed and in vertical position.

Prohibited equipment and procedures:

Smoking, eating and drinking are prohibited in areas where the preparation is used.

Storage:

Keep away from food and drink.

Do not store together with strong oxidizing agents.

Storage temperature: 5-40 °C

Storage time: 2 years

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Technical measures:

Personnel shall wear regularly laundered overalls.

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.

Exposure limit values per INRS ED 984:

Substance: Oil mist, mineral

Exposure Duration: TWA Exposure Limit: 5 mg/m³ Exposure Duration: STEL Exposure Limit: 10 mg/m³

Regulations: ACGIH Threshold Limit Values; UK: EH 40 2005 Health and Safety Executive. EH40; Occupational Exposure Limits

Respiratory protection:

In case of forming of mist or if ventilation is not sufficient it's recommended to wear breathing apparatus (type FFA1P1 according to standard CE EN 405).

In case of higher concentrations than exposure limits, wear approved and appropriate respirator apparatus (type FFA1P1 according to standard CE EN 405).

Hand protection:

Wear protective gloves if advisable under safety aspects.

Gloves of appropriate material (i.e. nitrilic rubber, specification: penetration time: level 6, >480 min., thickness 0,9-1 mm; CE-certified acc. EN 374 cat III)

Use appropriate protection cream, especially if for safety reasons protective gloves are not advisable.

Eye and face protection:

Use glasses or face shield if there is a risk of splashing.

Skin protection:

Standard issue working clothes. Safety shoes or boots - chemical resistant.

Remove contaminated clothing. Wash affected skin with soap and water.

Don't keep lubricant contaminated rags in pockets of working clothes.

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical state: fluid liquid

Important health, safety and environmental information:

pH of the substance or preparation: not relevant.

The pH is impossible to measure or its value is not relevant.

Flash point interval: Flash point > 60 °C

Flash point: 190.00 °C.

Explosive properties, lower explosivity limit (%): 1 (vol. %)

Explosive properties, upper explosivity limit (%): 10 (vol. %)

Vapour pressure: not relevant.

Density: < 1

Density: ~880kg/m³ (20 °C; ASTM D 1298)

Water solubility: Insoluble.

Viscosity: ~22 mm²/s (40 °C; ASTM D 7042)

Other information:

% VOC:

< 0,1

10 - STABILITY AND REACTIVITY

The preparation is stable at the handling and storage conditions recommended per § 7 of the safety data sheet,

Conditions to avoid:

Heat (temperature higher than flash point), sparks, flames and other ignition sources.

Materials to avoid:

Strong oxidising agents.

Strong acids.

Strong bases.

Hazardous decomposition products:

No dangerous decomposition products occur under normal storage and use conditions.

11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

The toxicological information are based on data for the component(s) and/or are deduced from the results of the evaluation according to the criteria of the substances/preparations directive.

In the event of exposure by inhalation:

Toxic effects are not expected: LC50 >5 mg/l/4h (rat)

Sensitization by inhalation is not expected.

The product is not irritating to the respiratory system.

In the event of swallowing:

Toxic effects are not expected: LC50 > 2000 mg/kg (rat)

In the event of splashes or contact with skin:

Sensitization by skin contact is not expected.

Toxic effects are not expected: LC50 > 2000 mg/kg (rat)

In the event of splashes or contact with eyes:

Splashes in eyes may cause slight irritation and have reversible effects on powers of vision.

Other data:

No data available to demonstrate that the product has chronic or harmful effects on human health.

The product is not expected to be carcinogenic, mutagenic, teratogenic, or toxic for reproduction.

Frequent and prolonged contact with products like mineral oils or hydrocarbons, may cause lipidic extract of skin, in particular if temperature is high.

During use, the accumulation of substances, which may be hazardous for human health, is possible.

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

The ecological information are based on data for the component(s) and/or are deduced from the results of the evaluation according to the criteria of the substance/preparation directive.

Mobility:

In nature the product is liquid in most of conditions.

WATER : it floats on the surface.

SOIL : In consideration of its physico-chemical characteristics, the product is expected to be not very mobil in soil

Persistence and degradability:

The product contains 10 - 20% readily biodegradable components.

Bioaccumulative potential:

Potentially non bioaccumulable.

Ecotoxicity:

Toxic effects on aquatic organisms are not expected: LC50/EC50/IC50 >100 mg/l.

Other adverse effects:

Informations on adsorbable halogenic compounds (AOX):

The product does not contain substances which may increase the AOX value.

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

If reclamation is not possible, dispose it off via a certified collector or company.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Recommended cleaning agents: hydrocarbons cleaners or water with appropriate cleaning agent.

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :

12 01 07 * mineral-based machining oils free of halogens (except emulsions and solutions)

Allocation of the waste code numbers must be realized under considerations of existing sector specifics and processes. The above allocation is a recommendation for the disposal of the product after recommended use.

14 - TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2009 - IMDG 2008 - ICAO/IATA 2009).

15 - REGULATORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations

In addition directive 2008/58/EC with the 30° adaptation of directive 67/548/EEC (Hazardous substances) has been taken into account.

This preparation is not classified as hazardous to health by directive 1999/45/EC.

This product is not classified as flammable.

Particular provisions:

16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

The product should be used for industrial processing or applications only.

Customs Tariff Code: 2710 1991

16.2 Changes done in this version:

2, 3, 9, 10

Full text of risk phrases appearing in section 3:

R 38 Irritating to skin.

