



Castrol (U.K.) Limited

The Leading Lubrication Specialist



SAFETY DATA SHEET

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

Product Name: **Nucleol G 121** Code: **2351-UK**

Application: Nuclear power plant lubrication.

Company: **Castrol (U.K.) Limited**
Address: **Burmah Castrol House, Pipers Way, Swindon, Wiltshire, SN3 1RE**
Telephone (24 hours): **01793 512712** Fax: **01793 491442**

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Highly refined mineral oil, thickener and additives.
Contains alkyl sarcosine & imidazoline derivative.

Hazardous Ingredient(s)

This product contains ingredients classified as hazardous. However, they are NOT present in sufficient quantities to warrant classifying the product as hazardous.

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of Notified Chemical Substances) or are exempt.
Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

This product is NOT classified as hazardous.

May be dangerous to the environment, refer to Section 12.

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes.
Skin: Wash thoroughly with soap and water or suitable skin cleanser as soon as possible.
If injected under the skin obtain medical attention urgently.
Inhalation: Remove from exposure - unlikely to occur.
Ingestion: Obtain medical attention. Do NOT induce vomiting.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water fog - Do not use water jets.
Prevent contaminated extinguishing media from entering drains, sewers and water courses.
Special Exposure Hazards: None.
Special Protective Equipment: None.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Spilt product presents a significant slip hazard.
Environmental Precautions: Prevent entry into drains, sewers and water courses.
Decontamination Procedures: Gather into containers. Dispose of as waste.



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7: HANDLING AND STORAGE

Handling: To avoid the possibility of skin disorders, repeated or prolonged contact with products of this type must be avoided. It is essential to maintain a high standard of personal hygiene.
When handling a pressure grease gun avoid injecting grease under the skin.

Storage: Never leave a container unsealed.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:-

Substance	8 Hr.TWA	STEL	Source/Other Information
Mineral oil (see Oil mist, mineral)	5 mg/m ³	10 mg/m ³	EH40 (OES)

Engineering Control Measures: None.

Personal Protective Equipment: Avoid skin and eye contact. Wear impervious gloves (eg of PVC), in case of repeated or prolonged contact.
Change contaminated clothing and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Grease

Colour: Orange

Odour: Mild

Boiling Point/Range (°C): Above 300

Melting Point/Range (°C): 270

Flash Point (closed, °C): Above 200

Autoignition (°C): Above 250

Vapour Pressure (kPa at 20°C): Not determined

Relative Density (at 20°C): Below 1.0

Water Solubility: Insoluble

Fat Solubility: Not determined

10: STABILITY AND REACTIVITY

Stability: Stable, will not polymerise.

Conditions to Avoid: Temperatures (°C) above 150.

Materials to Avoid: Strong oxidising agents.

Hazardous Decomposition Products: Irritant fumes.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components. Expected oral LD₅₀, rat > 2g/kg. Expected dermal LD₅₀, rabbit > 2g/kg.

Health Effects

On Eyes: May cause transient irritation.

On Skin: Unlikely to irritate on brief or occasional exposure.

By Inhalation: Low volatility makes inhalation unlikely at ambient temperatures.

By Ingestion: May cause nausea, vomiting and diarrhoea.

Chronic: Repeated and prolonged skin contact may lead to skin disorders.

Other: Will cause severe tissue damage if injected under the skin.



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12: ECOLOGICAL INFORMATION

Environmental Assessment:	May cause ecological damage in aquatic systems and must be used and disposed of in accordance with the recommendations made in this safety data sheet.
Mobility:	Non-volatile. Solid. Insoluble in water.
Persistence and Degradability:	Inherently biodegradable.
Bioaccumulative Potential:	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.
Ecotoxicity:	Expected to be harmful to aquatic organisms. Not expected to be inhibitory to sewage bacteria.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product:	Classified as a special waste. European Waste Code: 13 06 01. Dispose of through an authorised waste contractor to a licensed site. May be incinerated.
Used/Contaminated Product:	As for Unused Product.
Packaging:	Must be disposed of through an authorised waste contractor.

14: TRANSPORT INFORMATION

This product is NOT classified as dangerous for transport.

15: REGULATORY INFORMATION

This product is NOT classified as dangerous for supply in the UK.

EC Directives:	Waste Oil Directive, 87/101/EEC. Hazardous Waste Directive, 91/689/EEC.
Statutory Instruments:	Health & Safety at Work, etc. Act 1974. Consumer Protection Act 1987. Environmental Protection Act 1990. Special Waste Regs. 1996 (SI 972).
Codes of Practice:	Waste Management. The Duty of Care.
Guidance Notes:	Occupational exposure limits (EH 40). Carcinogenicity of mineral oils (EH 58). Skin cancer caused by oil [MS(B)5]. Save your skin! - Occupational Contact Dermatitis [MS(B)6]. Dermatitis - cautionary notice [SHW 367]. Effects of mineral oil on the skin [SHW 397]. Health and safety in engineering workshops (HSG129). Preventing dermatitis at work - Advice for employers and employees (INDG233).

The above publications are available from HMSO or HSE

16: OTHER INFORMATION

Safety Data Sheets - A User Guide (Chemical Hazards Communication Society).

Since the previous issue the following sections have been amended: 2, 3, 4, 5, 8, 12, 13, 15 & 16.



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The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

Further copies of this Safety Data Sheet may be obtained from Castrol (U.K.) Limited.