Material Safety Data Sheet



1. Identification of the material and supplier

Product name Hysol MB 50

SDS no. 465450

Product use Metalworking fluid - soluble.

For specific application advice see appropriate Technical Data Sheet or consult our company

representative.

Supplier Castrol Australia Pty Ltd

Level 17, 717 Bourke Street Docklands, Victoria 3008 ABN 87 008 459 407 www.castrol.com.au

Tel: +61 (03) 9268 4111 Fax: +61 (03) 9268 3321

EMERGENCY TELEPHONE +61 2801 44558 (or 1800 14 14 74 within Australia)

NUMBER

OTHER PRODUCT Technical Advice Helpline Number: 1300 557 998 INFORMATION

Product code 465450-AU22

2. Hazards identification

Statement of hazardous/

dangerous nature

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

Risk phrases R36- Irritating to eyes.

3. Composition/information on ingredients

Highly refined mineral oil, emulsifiers and additives.

Ingredient nameCAS no.%Amine neutralised phosphoric acid estersNot available.1 - 5Amine neutralised carboxylic acidsNot available.1 - 52-amino-2-methylpropanol124-68-51 - 5Amine neutralised carboxylic acidsNot available.1 - 5

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

4. First-aid measures

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should

be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses.

Get medical attention.

Skin contact Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated

clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical

attention if irritation develops.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms appear. In case of inhalation of

decomposition products in a fire, symptoms may be delayed. The exposed person may need to be

kept under medical surveillance for 48 hours.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth

to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if symptoms occur. Wash out mouth with water if person is

conscious.

Advice to doctor Treatment should in general be symptomatic and directed to relieving any effects.

5. Fire-fighting measures

Extinguishing media

Suitable In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide extinguisher or

spray.

Not suitable Do not use water jet.

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Hazardous decomposition

Decomposition products may include the following materials: carbon dioxide products

carbon monoxide nitrogen oxides phosphorus oxides

Unusual fire/explosion

In a fire or if heated, a pressure increase will occur and the container may burst.

hazards

Special fire-fighting procedures

Small spill

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is

a fire

Protection of fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive pressure mode.

Accidental release measures

Personal precautions No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective

equipment (see Section 8).

Environmental precautions Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Large spill

Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Handling Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and

clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Empty containers retain product residue and can be hazardous. During metal working, solid particles from workpieces or tools will contaminate the fluid and may cause abrasions of the skin. Where such abrasions result in a penetration of the skin, first aid treatment should be applied as soon as reasonably possible. The presence of certain metals in the workpiece or tool, such as chromium, cobalt and nickel, can contaminate the metalworking fluid and as a result may induce allergic skin reactions. Avoid prolonged or repeated contact with skin. Evaporation of water from soluble cutting fluids during use may lead to an increase in concentration which may result in the development of skin conditions due to irritation and defatting. It is important to monitor fluid strength on a regular basis with a refractometer and maintain it at the recommended concentration. Lubricants from other sources and other contaminants should be minimised. Swarf and other debris should be removed. To maintain optimum performance and minimise bacterial spoilage, machine tool coolant systems should

be cleaned on a regular basis.

Store and use only in equipment/containers designed for use with this product. Keep away from heat **Storage**

and direct sunlight. Protect from freezing. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Store in accordance with local regulations. Store in a

dry, cool and well-ventilated area, away from incompatible materials (see Section 10).

Combustibility Classification Combustible liquid Class C2 (AS 1940).

Exposure controls/personal protection

Ingredient name Occupational exposure limits

Base oil - unspecified Safe Work Australia (Australia).

TWA: 5 mg/m3 8 hours. Form: Oil mist, mineral

Triethanolamine Safe Work Australia (Australia). Skin sensitiser.

TWA: 5 mg/m³ 8 hours. Issued/Revised: 4/1997

Boric acid ACGIH TLV (United States).

STEL: 6 mg/m³ 15 minutes. Issued/Revised: 1/2005 Form: Inhalable fraction TWA: 2 mg/m³ 8 hours. Issued/Revised: 1/2005 Form: Inhalable fraction

For information and guidance, the ACGIH values are included. For further information on these please consult your supplier.

Whilst specific OELs for certain components are included in this SDS, it should be noted that other components of the preparation will be present in any mist, vapour or dust produced. For this reason, the specific OELs may not be applicable to the product and are provided for guidance purposes.

Biological Limit Values No biological limit allocated.

Exposure controls

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Occupational exposure controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all thems of a personal protective equipment will depend upon a risk assessment.

that all items of personal protective equipment are compatible.

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking

and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety

showers are close to the workstation location.

Personal protective equipment

Respiratory protection Avoid breathing of vapours, mists or spray. Select and use respirators in accordance with AS/NZS

1715/1716. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist (Type P1) filters. Filter

capacity and respirator type depends on exposure level.

Skin and body

None required; however, use of protective clothing is good industrial practice.

Hand protection Wear suitable gloves. Undiluted fluid: Wear chemical resistant gloves. Recommended: nitrile gloves.

Diluted fluid: Wear protective gloves if prolonged or repeated contact is likely. Recommended: nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and

with a full assessment of the working conditions.

Eye protection Avoid contact with eyes. Chemical splash goggles

9. Physical and chemical properties

Physical state Liquid.

Colour Amber.

Odour Not available.

Flash point Closed cup: >150°C (>302°F) [Estimated. Water content interferes with flash point

determination.]

Vapour pressureNot available.Vapour densityNot available.

pH 9.7 [Conc. (% w/w): 5%]

Boiling point / range Not available.

Melting point / range Not available.

Relative density/Specific Not available.

gravity

Density <1000 kg/m³ (<1 g/cm³) at 15°C

Solubility Soluble in water.

10. Stability and reactivity

Stability The product is stable

Conditions to avoid Avoid extreme temperatures, strong oxidizers, fire.

Incompatibility with various substances/Hazardous

Reactive or incompatible with the following materials: oxidising materials. Slightly reactive or incompatible with the following materials: acids.

Hazardous decomposition

products

ion Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides

11. Toxicological information

Effects and symptoms

Eyes Causes eye irritation.

SkinNo significant health hazards identified.InhalationNo significant health hazards identified.IngestionNo significant health hazards identified.

Chronic toxicity

Carcinogenic effects

No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by

ACGIH, the International Agency for Research on Cancer (IARC), the European Commission (EC),

or the National Occupational Health and Safety Commission (Australia).

Mutagenic effects No known significant effects or critical hazards.

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12 . Ecological information

Ecotoxicity Not classified as environmentally hazardous in accordance with the 'Approved Criteria for Classifying

Hazardous Substances' [NOHSC (1008)/2004 as amended and adapted].

Biodegradability

Persistence/degradability The biodegradability of this material has not been determined.

Mobility Non-volatile. Liquid. Soluble in water.

13. Disposal considerations

Disposal considerations / Waste information

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Special Precautions for Landfill or Incineration No additional special precautions identified.

14. Transport information

International transport regulations

Not classified as dangerous for transport (ADG, IMDG, ICAO/IATA).

Special precautions for user No known special precautions required. See Section: "Handling and storage" for additional

information.

15 . Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Control of Scheduled Carcinogenic Substances

Ingredient name Schedule

No Listed Substance

Other regulations

REACH Status For the REACH status of this product please consult your company contact, as identified in Section 1.

United States inventory

Australia inventory (AICS)

(TSCA 8b)

All components are listed or exempted.

Canada inventory Not determined.
China inventory (IECSC) Not determined.

Japan inventory (ENCS) At least one component is not listed.

Not determined.

Korea inventory (KECI) Not determined.

Philippines inventory Not determined.

(PICCS)

Taiwan inventory (CSNN) Not determined

16. Other information

Key to abbreviations AMP = Acceptable Maximum Peak

ACGIH = American Conference of Governmental Industrial Hygienists, an agency that promulgates exposure standards

ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail ADG Code = Australian Code for the Transport of Dangerous Goods by Road and Rail

CAS Number = Chemical Abstracts Service Registry Number

HAZCHEM Code = Emergency action code of numbers and letters which gives information to emergency services. Its use is required by the ADG Code for Dangerous Goods in bulk. ICAO = International Civil Aviation Organization.

IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.

IMDG = International Maritime Organization Rules, rules governing shipment of goods by water. IP 346 = A chemical screening assay for dermal toxicity. The European Commission has recommended that Method IP 346 be used as the basis for labelling certain lubricant oil base stocks for carcinogenicity. The EU Commission has stipulated that the classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. (See Note L, European Commission Directive 67/548/EEC as amended and adapted.) DMSO is a solvent.

NOHSC = National Occupational Health & Safety Commission, Australia

TWA = Time weighted average STEL = Short term exposure limit

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee

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of Experts on the Transport of Dangerous Goods.

History

Date of issue 27/05/2015.

Date of previous issue No previous validation.

Prepared by Product Stewardship

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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