



SAFETY DATA SHEET

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

Identification of the substance or preparation:

Name: ADRANA D 208.01.

Product code: UK18228.

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:

Soluble metalworking fluid 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.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Preparation classification:

R 52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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:	%
1030213	103818-93-5		ALCOHOLS, C9-11, ETHOXYLATED PROPOXYLATED	Xi	41	1 <= x % < 2.5
1033238	4299-07-4	420-590-7	2-BUTYL-1,2-BENZISOTHIAZOLIN-3-ONE	C N	34 43 50/53	0 <= x % < 1
603-079-00-5	105-59-9	203-312-7	METHYLDIETHANOLAMINE N-	Xi	36	2.5 <= x % < 10
M0137	66204-44-2	266-235-8	3,3'-METHYLENEBIS[5-METHYLOXAZOLIDINE]	C	34 52 21/22	1 <= x % < 2.5
M0284		POLYMER	FATTY ALKOHOL PLYGLYCOLEETHER (C13-C15)	Xi N	41 50	0 <= x % < 1
NS10043353	10043-35-3	233-139-2	BORIC ACID, NEUTRALISED	T	60.F2 61.G2	2.5 <= x % < 10
NS141435	*141-43-5	*205-483-3	2-AMINOETHANOL, NEUTRALISED	Xn	20/21/22	2.5 <= x % < 10
S0003	173832-45-6		POLYMERIZED FATTY ACID ESTER (ETHOXYLATED)		52/53	1 <= x % < 2.5
S0118	2492-26-4	219-660-8	SODIUM BENZOTHIAZOL-2-YL SULPHIDE	C N	34 50/53	0 <= x % < 1
S0125	3811-73-2	223-296-5	PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT	Xn N	36/38 50 22	0 <= x % < 1

Other substances with occupational exposure limits:

CAS 10043-35-3 BORIC ACID

CAS 141-43-5 2-AMINOETHANOL

INDEX	CAS	EC	Name	Symb.	R:	%
1029590	102-71-6	203-049-8	TRIETHANOLAMINE			2.5 <= x % < 10

Other components:

* CAS/EINECS for free acid, base or alkanolamine

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).

Concentration BORIC ACID: < 5,5%

INDEX	CAS	EC	Name	Symb.	R:	%
649-465-00-7	64742-52-5	265-155-0	BASEOIL - UNSPECIFIED			10 <= x % < 25
649-466-00-2	64742-53-6	265-156-6	DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC			0 <= x % < 1
649-469-00-9	64742-56-9	265-159-2	DISTILLATES (PETROLEUM), SOLVENT-DEWAXED LIGHT PARAFFINIC			1 <= x % < 2.5

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.

Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.

In the event of splashes or contact with skin:

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

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

The product itself does not burn because of the water content.

Suitable extinguishing media:

Not applicable/Not relevant.

Extinguishing media which must not be used for safety reasons:

Not applicable/Not relevant

Special protective equipment for fire-fighters:

Fire-fighting personnel must use breathing apparatus with independent air supply (insulated)

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

Not applicable/not relevant

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.

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Methods for cleaning up:

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

Pick up the liquid with poms 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:

For personal safety, see §8.
Observe precautions stated on label and also industrial safety regulations
When not in use, keep the containers tightly closed and in vertical position.

Prohibited equipment and procedures:

Smoking, eating and drinking are prohibited in premises where the preparation is used
Never open packages under pressure.

Storage:

Keep the container tightly closed in a dry place.
Keep away from food and drink.
Do not store together with strong oxidizing agents.
Keep packaging closed and away from frost.
Storage temperature: 5-40 °C
Storage time: 1 year

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Technical measures:

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

Exposure limit values per INRS ED 984:

France	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP N°:
141-43-5	1	2.5	3	7.6	-	49, 49 Bis

The names of the components identified in this chapter by CAS are mentioned in chapter 2.

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

Exposure limit values per 2006/15/CE, 2000/39/EC and 98/24/EC:

EC	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Notes:
141-43-5	2.5	1	7.6	3	Peau

Exposure limit values (2003-2006):

Switzerland	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Temps:	RSB:
3811-73-2	1i	-	2i	-	4x15	R
Germany/AGW	AGW:	AGW:	Faktor:	Bemerkungen:		
3811-73-2	-	1 mg/m ³	2(II)	DFG. H. Y		
10043-35-3	-	0,5 mg/m ³	2 (I)	AGS, Y, 10		
Denmark(3.4/3.4.1)	TWA:	STEL:	Anm:	TWA:	STEL:	Anm:
102-71-6	0.5 ppm	3.1 mg/m ³		0.5 ppm		
Ireland	TWA:	STEL:	Ceiling:	Definition:	Criterion:	

102-71-6	5 mg/m3	-	-	-	-	
Czech Rep.	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
102-71-6	5 mg/m3	10 mg/m3	-	-	-	
UK/WELs	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
141-43-5	3 ppm	6 ppm	-	-	-	
Polska	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
141-43-5	3 mg/m3	10 mg/m3	-	-	-	
Suomi/Finlande	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
141-43-5	3 ppm	6 ppm	-	-	-	
UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
141-43-5	3 ppm	6 ppm	-	-	-	
141-43-5	5 mg/m3	2 ppm	10 mg/m3	4 ppm	4x15	S
141-43-5	2 ml/m3	5,1 mg/m3	2(l)	DFG, H, Y		
141-43-5	1 ppm	2.5 mg/m3	H	1 ppm		H
141-43-5	3 ppm	6 ppm	-	-	-	
141-43-5	5 mg/m3	10 mg/m3	-	-	-	
ACGIH/TLV	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
10043-35-3	2 mg/m3	6 mg/m3	-	-	I	
102-71-6	5 mg/m3	-	-	-	-	
141-43-5	3 ppm	6 ppm	-	-	-	
Nederland	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
3811-73-2	1 mg/m3	-	-	-	-	
102-71-6	5 mg/m3	-	-	-	-	
141-43-5	1 ppm	3 ppm	-	-	-	
Belgique	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
102-71-6	5 mg/m3	-	-	-	-	
141-43-5	3 ppm	6 ppm	-	-	-	
Norsk	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
102-71-6	5 mg/m3	-	-	-	-	
141-43-5	3 ppm	-	-	-	-	
España	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
102-71-6	5 mg/m3	-	-	-	-	
141-43-5	3 ppm	6 ppm	-	-	-	
Sverige	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
102-71-6	5 mg/m3	10 mg/m3	-	-	-	
141-43-5	3 ppm	6 ppm	-	-	-	

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: slightly basic.
When a pH measure is possible, it has a value of: not stated.
pH (aqueous solution): @ 3% 9,4
Flash point interval: not relevant.
Vapour pressure: not relevant.
Density: > 1
Density: 1,022 kg/dm³ (ASTM D 1298)
Water solubility: Dilutable.

Other information:

% VOC: 0

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
Acid conditions (ph < 7)

Materials to avoid:

Strong oxidising agents.
Acids.
Materials which strongly react with water.

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:

The product is not irritating to the respiratory system.
Toxic effects are not expected: LC50 >5 mg/l/4h (rat)
Sensitization by inhalation is not expected.

In the event of swallowing:

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

In the event of splashes or contact with skin:

Toxic effects are not expected: LC50 > 2000 mg/kg (rat)
Contact with skin may cause skin irritation and dermatosis, if corrected procedures for personal hygiene might not be taken under consideration.
Sensitization by skin contact is not expected.

In the event of splashes or contact with eyes:

Slight irritation is possible.

Other data:

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

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

Contains a formaldehyde releaser. Very small amounts of formaldehyde, which has hazardous effects on human health, may be released.

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 product must not be allowed to run into drains or waterways.

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.

The product emulsifies in water.

SOIL: in consideration of its physico-chemical characteristics, the product is expected to be relatively mobil in soil.

Persistence and degradability:

Not known

Bioaccumulative potential:

Potentially bioaccumulable.

Ecotoxicity:

Harmful to aquatic organisms: $10 < LC50/EC50/IC50 < 100$ mg/L.

In accordance with Directive 2006/8/EC:

CAS	EC		
4299-07-4	420-590-7	2-BUTYL-1,2-BENZISOTHIAZOLIN-3-ONE	
		EC50 (for daphnia) 48h (mg/l)	0.01 < EC50 <= 0.1
CAS	EC		
	POLYMER	FATTY ALCOHOL PLYGLYCOLETHER (C13-C15)	
		EC50 (for daphnia) 48h (mg/l)	EC50 > 0.1

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.

Do not contaminate soil and/or water with industrial wastes, do not dispose of waste into the environment.

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 agent: water.

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

12 01 09 * machining emulsions and solutions free of halogens

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 2007 - IMDG 2006 - ICAO/IATA 2007).

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 hazards associated with the preparation and safety recommendations:

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

Abbreviations in chapter 8:

(I) Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages

(II) category II: substances with a resorptive effect

H: Substance can be absorbed through the skin.

Y: If the OEL and BAT values are complied with, there should be no risk of reproductive damage.

DFG: Senate's Commission for the testing of hazardous substances in the workplace (German Research Foundation)

AGS: Decision of the Committee for Dangerous Substances

(10) The limit value pertains to the metal content as the analytical basis for calculations.

R (Switzerland): Skin absorption possible

S (Switzerland): Sensitizing substance

Full text of risk phrases appearing in section 3:

R 20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R 21/22	Harmful in contact with skin and if swallowed.
R 22	Harmful if swallowed.
R 34	Causes burns.
R 36	Irritating to eyes.
R 36/38	Irritating to eyes and skin.
R 41	Risk of serious damage to eyes.
R 43	May cause sensitisation by skin contact.
R 50	Very toxic to aquatic organisms.
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 52	Harmful to aquatic organisms.
R 52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 60.F2	May impair fertility.
R 61.G2	May cause harm to the unborn child.