

SAFETY DATA SHEET GIROSIL ADHESION PROMOTER N°1

Revision: 1 Date: 14/11/2017

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. <u>Product identifier</u>

Product name Girosil Adhesion Promoter No1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Adhesion promoter designed for industrial use.

1.3. Details of the supplier of the safety data sheet

Supplier Giromax Technology Ltd

Eagle House Bilton Way Lutterworth

Leicestershire LE17 4JA +44 (0) 1455 558969

Contact person sales@giromax.co.uk

1.4. <u>Emergency telephone number</u>

Emergency telephone +44 (0)1455 558969 (Not 24 Hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 STOT SE 3 - H336

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1- H410

2.2. <u>Label elements</u>

Pictogram







Signalword Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

Contains CYCLOHEXANE

2.3. Other hazards

Not Known

SECTION 3: Composition/information on ingredients

3.1. Mixtures

CYCLOHEXANE		60-100%
CAS number: 110-82-7 M factor	EC number: 203-806-2 M factor (Chronic) = 1	
(Acute) = 1		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225	F;R11 Xn;R65 Xi;R38 R67 N;R50/53	
Skin Irrit. 2 - H315		
STOT SE 3 - H336		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		

PROPRIETARY INGREDIENT

1-5%

CAS number: 546-68-9

Classification Flam.

Liq. 3 - H226

Acute Tox. 3 - H331 Eye Irrit. 2 - H319

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

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SECTION 4: First aid measures

4.1. <u>Description of first aid measures</u>

General Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give

information anything by mouth to an unconscious person. Get medical attention if any discomfort continues.

Inhalation Place unconscious person on their side in the recovery position and ensure breathing can take place. When

breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical

attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available.

Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the

medical personnel.

Skin contact Rinse immediately with plenty of water. Remove contaminated clothing.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse

for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

4.2. Most important symptoms and effects, both acute and delayed

4.3. <u>Indication of any immediate medical attention and special treatment needed</u>

Notes for the doctor Treat symptomatically.

Specific treatments Not applicable

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing

Media Extinguish with the following media: Water spray, fog or mist. Foam, carbon dioxide or dry

powder. Dry chemicals, sand, dolomite etc.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards Thermal decomposition or combustion products may include the following substances: Toxic

gases or vapours.

5.2. Advice for firefighters

Protective actions

during firefighting In case of fire: Evacuate area. Be aware of explosion risk Cool containers exposed to heat

with water spray and remove them from the fire area if it can be done without risk. Do not

enter storage areas or confined spaces unless adequately ventilated.

Special protective equipment

for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate

protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

For non-emergency

personnel Keep unnecessary and unprotected personnel away from the area.

6.2. <u>Environmental precautions</u>

Environmental

precautionsVery toxic to aquatic life with long lasting effects. Avoid discharge into drains or watercourses or onto

the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Keep combustible materials away from spillage. Eliminate all sources of ignition. No smoking, sparks,

flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry

sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other

sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide

adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above

an acceptable level. Advice on general occupational hygiene

No specific hygiene procedures recommended but good personal hygiene practices should always be

observed when working with chemical products.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a dry,

cool and well-ventilated place. Keep only in the original container. Avoid contact with oxidising agents.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters Occupational exposure limits

CYCLOHEXANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m³ Short-term exposure limit (15-minute): WEL 300 ppm 1050 mg/m³ WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment





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Appropriate engineering

Controls Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for

the product or ingredients. All handling should only take place in well-ventilated areas.

Eye/face protection Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply

with European Standard EN166.

Hand protection It is recommended that chemical-resistant, impervious gloves are worn. The most suitable glove should

be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. The breakthrough time for any glove material may be different for different

glove manufacturers.

Other skin and

body protection Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before

eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use

appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection Wear a respirator fitted with the following cartridge: Organic vapour filter.

SECTION 9: Physical and Chemical Properties

9.1. <u>Information on basic physical and chemical properties</u>

Appearance Liquid.

Colour Colourless to pale yellow.

Odour Hydrocarbons.

Initial boiling point & range 80°C Flash point -20°C

Upper/lower flammability or

explosive limits Lower flammable/explosive limit: 1.3%

Upper flammable/explosive limit: 8%

Vapour pressure 78 mm Hg @ 20°C

Relative density 0.77 - 0.79

Solubility(ies) Immiscible with water.

Partition coefficient Not known.

9.2. Other information

Other information No additional information

Volatile organic compound This product contains a maximum VOC content of 780 g/l.

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SECTION 10: Stability and reactivity

Reactivity

Reactivity See Section 10.3 (Possibility of hazardous reactions) for further information.

10.1. Chemical stability

Stability No particular stability concerns.

10.2. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.3. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources ofignition.

10.4. <u>Incompatible materials</u>

Materials to avoid Avoid contact with the following materials: Strong oxidising agents.

10.5. <u>Hazardous decomposition products</u>

Hazardous decomposition products Oxides of carbon.

SECTION 11: Toxicological information

11.1. <u>Information on toxicological effects</u>

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 300.0

General information Prolonged and repeated contact with solvents over a long period may lead to permanent health

problems.

Inhalation Vapours may cause drowsiness and dizziness.

Symptoms following overexposure may include the following: Coughing.

IngestionGastrointestinal symptoms, including upsetstomach.SkincontactIrritating to skin. Product has a defatting effect on skin.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

SECTION 12: Ecological Information

12.1. <u>Toxicity</u>

Ecotoxicity The product contains a substance which is very toxic to aquatic organisms and which may cause long-term

adverse effects in the aquatic environment.

12.2. Persistence and degradability

12.3. <u>Bioaccumulative potential</u>

Bioaccumulative potential Not available. **Partition coefficient** Not known.

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB

12.6. Other adverse effects

Otheradverseeffects None known.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in

accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local

Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of

waste via a licensed waste disposal contractor.

SECTION 14: Transport information

14.1. <u>UN number</u>

UN No. (ADR/RID) 1263 UN No. (IMDG) 1263 UN No. (ICAO) 1263 UN No. (ADN) 1263

14.2. UN proper shipping name

Proper shipping name (ADR/RID)PAINT RELATED MATERIALProper shipping name (IMDG)PAINT RELATED MATERIALProper shipping name (ICAO)PAINT RELATED MATERIALProper shipping name (ADN)PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3
IMDG class 3
ICAO class/division 3
ADN class 3

Transport labels



14.4. Packing group

ADR/RID packing group || IMDG packing group || I ADN packing group || ICAO packing group || I

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



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14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 2

Emergency Action Code •3YE

Hazard Identification Number 33 (ADR/RID)

Tunnel restriction code (D/E)

14.7. TransportinbulkaccordingtoAnnexIIofMARPOLandtheIBCCode

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EUlegislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning

the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on

classification, labelling and packaging of substances and mixtures (as amended).

Guidance Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate. CAS: Chemical Abstracts Service. DMEL: Derived Minimal Effect Level. DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.

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Riskphrasesinfull

R10 Flammable.

R11 Highly flammable.

R38 Irritating to skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness.

Hazard statements in full

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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