

Safety data sheet
according to 1907/2006/EC, Article 31 (REACH)

Printing date: 13.01.2016

Version number 34

Revision: 13.01.2016

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

- **1.1 Product identifier** IR-Medium
- **Tradename:**
- **Article number:** **601-63**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Rheology additive
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Dove Screen Services Limited
Unit A, Harvey Court, Dovefields, Uttoxeter, Staffordshire, ST14 8HU. UK.
Tel: 01889 562274 email: sales@dovescreen.co.uk
- **1.4 Emergency telephone number:** +44 (0) 1889 562274

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS07
- **Signal word** Warning
- **Hazard statements**
H319 Causes serious eye irritation.
- **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash thoroughly after handling.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Solution of resins and additives in a mixture of solvents
- **Hazardous components:**

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CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Registration number: 01-2119475104-44-xxxx	2-(2-butoxyethoxy)ethanol ⚠ Eye Irrit. 2, H319	50-75%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 Registration number: 01-2119475108-36-****	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-2.5%
CAS: 577-11-7 EINECS: 209-406-4 Registration number: 01-2119491296-29-xxxx	docusate sodium ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	0.5-1%

· **SVHC** This product does not contain any SVHC· **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· After swallowing

In case of persistent symptoms consult doctor.

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

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· **Suitable extinguishing agents** CO₂, sand, extinguishing powder. Do not use water.· **For safety reasons unsuitable extinguishing agents** Water.

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

· 5.3 Advice for firefighters

· **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Ensure adequate ventilation

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

· Information about protection against explosions and fires:

No special measures required.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**
The application of this product requires well exhausted firing kilns and efficient ventilation of working areas.

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

112-34-5 2-(2-butoxyethoxy)ethanol

WEL (Great Britain)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm
IOELV (European Union)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67,5 mg/m ³ , 10 ppm

111-76-2 2-butoxyethanol

WEL (Great Britain)	Short-term value: 246 mg/m ³ , 50 ppm Long-term value: 123 mg/m ³ , 25 ppm Sk, BMGV
IOELV (European Union)	Short-term value: 246 mg/m ³ , 50 ppm Long-term value: 98 mg/m ³ , 20 ppm Skin

- **DNELs**

111-76-2 2-butoxyethanol

Oral	DNEL	3.2 mg/kg/24h (human (general population)) long term
Dermal	DNEL	38 mg/kg/24h (human (general population)) long term
		75 mg/kg/24h (human (workers)) long term
Inhalative	DNEL	49 mg/m ³ (human (general population)) long term
		98 mg/m ³ (human (workers)) long term
	DNEL	426 mg/m ³ (human (general population)) acute
		633 mg/m ³ (human (workers)) acute

577-11-7 docusate sodium

Oral	DNEL	18.8 mg/m ³ (human (general population)) long term, systemic
Dermal	DNEL	31.3 mg/kg/24h (human (workers)) long term, systemic
		18.8 mg/pers/24h (human (general population)) long term, systemic

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Inhalative	DNEL	13 mg/m ³ (human (general population)) long term, systemic 44.1 mg/m ³ (human (workers)) long term, systemic
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· **PNECs****111-76-2 2-butoxyethanol**

PNEC sediment	3.46 mg/kg (marine water) 34.6 mg/kg (freshwater)
PNEC aqua	0.88 mg/kg (marine water) 8.8 mg/kg (freshwater)
PNEC STP	463 mg/l (activated sludge respiration inhibition)

577-11-7 docusate sodium

PNEC soil	0.138 mg/kg (soil)
PNEC sediment	0.653 mg/kg (sediment organisms)
PNEC aqua	0.066 mg/kg (intermittent use/emission) 0.0007 mg/kg (marine water) 0.0066 mg/kg (freshwater)
PNEC STP	122 mg/l (microbiological activity)

· **Ingredients with biological limit values:****111-76-2 2-butoxyethanol**

BMGV (Great Britain)	240 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: butoxyacetic acid
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· **Additional information:** The lists that were valid during the compilation were used as basis.· **8.2 Exposure controls**· **Personal protective equipment**· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.



Avoid contact with the eyes.



Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Protective gloves.

Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.

· **Material of gloves**

Nitrile rubber, NBR

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Tightly sealed safety glasses.

· **Body protection:**



Protective work clothing.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Oily
· Colour:	Light yellow
· Odour:	Characteristic

· **pH-value:** Neutral

· **Change in condition**

· **Melting point/Melting range:** Not determined
 · **Boiling point/Boiling range:** 100 °C

· **Flash point:** 114 °C (ISO 3679)

· **Ignition temperature:** 228 °C

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Critical values for explosion:**

· Lower:	0.7 Vol %
· Upper:	5.9 Vol %

· **Vapour pressure at 20 °C:** 0 hPa

· **Density** Not determined

· **Water:** Partly miscible

· **Viscosity:**

· dynamic at 20 °C:	400 mPas
· kinematic:	Not determined.

· **Solvent content:**

· Organic solvents:	78.3 %
· Water:	5.3 %
· VOC (EU):	78.25 %

· **Solids content:** 14.8 %

· **9.2 Other information** No further relevant information available.

· **Additional information** After some time, change of color of this product is possible without loss of characteristics.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Stable at ambient temperature
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	5660 mg/kg (rat)
Dermal	LD50	2700 mg/kg (rabbit)

111-76-2 2-butoxyethanol

Oral	LD50	1480 mg/kg (rat)
Dermal	LD50	2270 mg/kg (rat) 400 mg/kg (rabbit)
Inhalative	LC50/4 h	> 2 mg/l (rat)

577-11-7 docusate sodium

Oral	LD50	>3100 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>20 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Irritant effect.
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LC50/96 h (static)	1805 mg/l (fish)
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	EC50/96 h	3200 mg/l (daphnia)
111-76-2 2-butoxyethanol		
Oral	LC50/24 h	1700 mg/l (fish) Carassius auratus
	EC50/24 h	> 1500 mg/l (daphnia)
577-11-7 docusate sodium		
Oral	LC50/96 h	28 mg/l (fish) (OECD 203) oncorhynchus mykiss
	LC50/96 h	37 mg/l (fish) (OECD 203) lepomis macrochirus
	EC50/48 h	36 mg/l (daphnia) daphnia magna

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

- | | |
|--|---------------|
| · 14.1 UN-Number | |
| · ADR, ADN, IMDG, IATA | Not regulated |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Not regulated |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Not regulated |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Not regulated |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |

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· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· ADR	
· Remarks:	Not regulated
· ADN	
· Remarks:	Not regulated
· IMDG	
· Remarks:	Not regulated
· IATA	
· Remarks:	Not regulated
· UN "Model Regulation":	Not regulated

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations**
The product is subject to classification in accordance with the prevailing version of the regulations on hazardous materials.
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information is based on our present state of knowledge and does not represent a guarantee for any product characteristics.

- **Relevant phrases**
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
- **Contact:**
Katie Murray
Technical Service Manager
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)

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PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

· * **Data compared to the previous version altered.**

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