

Safety Data Sheet

Boge Airficient

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

1.1 Product identifier

Productname Dirlup
Productcode EP_0349G X1 (CLP)

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

Recommended restrictions on use Release agent.

1.3 Details of the supplier of the safety data sheet

Supplier BOGE Kompressoren
Otto BOGE GmbH & Co.KG
Otto-BOGE-Str. 1-7
D-33739 Bielefeld
Germany
Telefon: +49 (0) 5206 601-0
Telefax: +49 (0) 5206 601 200

E-mail address

1.4 Emergency telephone number

EMERGENCY +(49) (0) 61 05 201-0,
TELEPHONE NUMBER

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin irritation: Category 2
Serious damage to eyes: Category 1
H315 - Causes skin irritation
H318 - Causes serious eye damage

Classification according to Directive 1999/45/EC [DPD]

Xi - Irritant
R36 - Irritating to eyes

2.2 Label elements

Signal word

Danger

Hazard statements

H315 - Causes skin irritation

H318 - Causes serious eye damage

Precautionary statements

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

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

For industrial and institutional use only.

Keep out of reach of children.

(SDS ONLY)

P302 + P352 - IF ON SKIN: Wash with plenty of water

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

P362 + P364 - Take off contaminated clothing and wash it before reuse

2.3 Other hazards

No additional hazards identified. The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

Section 3: Composition/information on ingredients

Mixture

Component	CAS-No.	EG-No.	EU – REACH Reg- No.	Weight-%	Classification	EU – CLP/GHS
ALCOHOLS, C9-11-ISO-, C10-RICH, ETHOXYLATED	78330-20-8	616-607-4	–	3 -< 5	Xi; R41	Eye Dam. 1 (H318)
OXIRANE METHYL-, POLYMER WITH OXIRANE, MONOBUTYL ETHER	9038-95-3		–	1 -< 3	T; R23	Acute Tox. 3 (H331)
ISODECANOLETHOXYLATE (7EO)	61827-42-7		–	1 -< 3	Xn; R22 R41	Acute Tox. 4 (H302) Eye Dam. 1 (H318)
2,2-(9-OCTADECENYLIMINO) BIS-ETHANOL	25307-17-9	246-807-3	01-119510876-35	1 -< 3	C; R34; R22; R50	Acute Tox. 4 (H302) Skin Corr. 1B (H314)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Germany

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						Aquatic Acute 1 (H400)
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Section 4: First aid measures

4.1 Description of first aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
Inhalation	If exposed to high concentrations of the vapours / mists, move to fresh air.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. If swallowed, seek medical advice and show the container or label.
General advice	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.

4.2 Most important symptoms and effects, both acute and delayed

Sensitization	No information available.
Eye contact	May cause burns which could lead to permanent eye damage.
Skin contact	May cause irritation as itching or redness.
Inhalation	Inhalation of mists may result in irritation to the respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Causes eye burns
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Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use: Water spray. Foam. Carbon dioxide (CO₂). Dry powder.

5.2 Special hazards arising from the substance or mixture

When exposed to high temperatures, the mixture may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Silicon oxides. Material can create slippery conditions.

5.3 Advice for firefighters

Firefighters should wear a self-contained breathing apparatus and full protective gear.

Section 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions. Ventilate the area.

6.2 Environmental precautions

Avoid release of neat product into surface water and sanitary sewage system.

6.3 Methods and materials for containment and cleaning up**Methods for Containment**

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Methods for Cleaning up

Clean preferably with a detergent, do not use solvents.

6.4 Reference to other sections

Refer to sections 7, 8 and 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

No information available

Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

The product does not contain any hazardous materials with occupational exposure limits established.

8.2 Exposure controls

Appropriate engineering controls

Provide an eyewash station. Provide washing facilities.
Ensure adequate ventilation, especially in confined areas.

Individual protection measures

Hygiene measures

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Respiratory protection

None required under normal conditions of use. In case of insufficient ventilation wear suitable respiratory equipment. Conforming to EN 143 eg P2 / P3 Particle filters.

Eye/face protection

Safety glasses with side-shields. Approved to EN 166. For large volumes, faceshields should be used.

Skin protection

Hand protection

Long term use eg: continuous wear or immersion;. Wear

suitable protective gloves conforming to EN 374. Type of gloves suggested :. Nitrile rubber (0.4 mm). PVC (0.7mm). Neoprene gloves (0.4mm). Minimum breakthrough time of the glove material (protective index 4, breakthrough time: >120 min). Suitability and durability of a glove is dependent upon usage factors such as frequency, duration of use, temperature and chemical resistance. The use of a chemical-protective glove may in practice be much shorter than the permeation time determined through testing. For break through times, refer to glove manufacturers recommendations.

Personal Protective Equipment

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

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical stat	liquid
Colour	Off-white
Odour	slight
Odour threshold	
pH	6
Melting point/freeze point	-2°C
Initial boiling point and boiling range	No information available
Pour point	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid,gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapour pressure	No information available
Vapour density	No information available
Relative density	1
Density	No information available
Solubility(ies)	soluble in water
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available

Viscosity	No information available
Explosive properties	No information available
Oxidising properties	No information available

9.2 Other information

Section 10: Stability and reactivity

10.1 <u>Reactivity</u>	Not considered as highly reactive. See further information below.
10.2 <u>Chemical stability</u>	Stable under normal conditions.
10.3 <u>Possibility of hazardous reactions</u>	The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use.
10.4 <u>Conditions to avoid</u>	No conditions to be specially mentioned.
10.5 <u>Incompatible materials</u>	No materials to be specially mentioned.
10.6 <u>Hazardous decomposition products</u>	None under normal storage conditions and use. When exposed to high temperatures, the mixture may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Silicon oxides.

Section 11: Toxicological information

11.1 Information on toxicological effects

The product itself has not been tested.

Component	Oral LD50	Dermal LD50	Inhalation LC50
OXIRANE METHYL-, POLYMER WITH OXIRANE, MONOBUTYL ETHER		= 14100 µL/kg (Rabbit)	= 147 mg/m ₃ (Rat) 4 h

Acute Toxicity Estimate

ATEmix (inhal.) = 50 mg/L/4h

Sensitization

No information available.

Skin contact

May cause irritation as itching or redness.

Inhalation

Inhalation of mists may result in irritation to the respiratory tract.

Eye contact

May cause burns which could lead to permanent eye damage.

Carcinogenicity

There are no known carcinogenic substances in this product.

Mutagenic Effects

There are no known mutagenic substances in this product.

Reproductive Effects

There are no known substances in this product with effects on reproduction.

Section 12: Ecological information

12.1 Toxicity

The product itself has not been tested.

Ecotoxicity effects

Contains substance(s) known to be hazardous to the aquatic environment

12.2 Persistence and degradability

Persistence and degradability are substance specific, no test data is available on the constituents of this mixture to degrade or persist in the environment, either through biodegradation or other processes, such as oxidation or hydrolysis.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Mobility

Soluble in water.

12.5 Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

12.6 Other adverse effects

No data available

Section 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

Dispose of in accordance with local regulations.

European waste catalogue (EWC)

Waste code	Waste designation
The following EWC/ AVV waste codes may be applicable: 07 07 01* aqueous washing liquids and mother liquors	

Packaging

Methods of disposal

Empty containers should be taken for local recycling, recovery or waste disposal. Empty remaining contents. Recycle according to official regulations.

Section 14: Transport information

		ADR/RID	ADN	IMDG	IATA
14.1	<u>UN number</u>	-	-	-	-
14.2	<u>UN proper shipping name</u>	-	-	-	-
14.3	<u>Transport hazard class(es)</u>	-	-	-	-
14.4	<u>Packing group</u>	-	-	-	-
14.5	<u>Environmental hazards</u>	No.	No.	No.	No.
	<u>Additional information</u>	-	-	-	-

14.6 Special precautions for user

Packaged product, not typically transported in IBC's.

Section 15: Regulatory information

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

This mixture was classified in compliance with EC Regulation 1272/2008 (CLP) and its adaptations. The mixture is classified as hazardous in accordance with Directive 1999/45/EC. In addition, Directive 2009/2/EC with the 31st Adaptation of Directive 67/548/EEC (Hazardous substances) has been taken into account.

15.2 Chemical Safety

No chemical safety assessment has been carried out for this mixture by the supplier

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Germany

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Assessment

Section 16: Other information

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
DPD = Dangerous Preparations Directive [1999/45/EC]
DSD = Dangerous Substances Directive [67/548/EEC]
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SADT = Self-Accelerating Decomposition

Boge Dirlup

Temperature

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVCB = Complex hydrocarbon substance

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Full text of abbreviated H statements

H318 - Causes serious eye damage. H331 - Toxic if inhaled. H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H400 - Very toxic to aquatic life.

Full text of classifications [CLP/GHS]

Calculation method. H315 - Causes skin irritation. H318 - Causes serious eye damage.

Full text of abbreviated R phrases

R22 - Harmful if swallowed. R23 - Toxic by inhalation. R34 - Causes burns. R41 - Risk of serious damage to eyes. R50 - Very toxic to aquatic organisms.

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