1 Identification of the substance/mixture and of the company

1.1 Product identifier

POWERSHIELD-EASY

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

Relevant identified uses

Welding and brazing products (with flux coating and flux liner), flux

1.3 Information on the supplier providing the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

EWM AG

Street

Dr. Günter Henle Str. 8

Country ID/ Postcode/Town

Germany, D-56271 Mündersbach

Contact for technical information

Anwendungstechnik (application engineering) (Tel. +49 (0) 2680/ 181-290

Telephone/Telefax/E-mail

+49 (0)2680 181-251 / +49 (0)2680 181-228 / qm@ewm-group.com

Emergency telephone number

Poisoning helpline – Institute of Toxicology (Berlin) – ☏ +49 (0)30 19240

2 Possible hazards

2.1 Classification of the substance or mixture

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

None

Classification according to Regulation 67/548/EEG or 1999/45/EC

None

2.2 Labelling elements

None

2.3 Other hazards

None

3 Composition/information on the components

3.1 Blends

Dangerous constituents

AMINES, C12-14-TERT-ALKYL, ETHOXYLATED, PROPOXYLATED; CAS no.. : 68603-58-7
% [weight]. 1–5%
Classification 67/548/EC: Xn ; R22
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302

POTASSIUM CUMENESULFONATE, EC No. : 248-827-8; CAS No. : 28085-69-0
% [weight]. 1–5%
Classification 67/548/EC: Xi ; R36
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

SODIUM CUMENESULFONATE; EC No. : 248-983-7; CAS No. : 28348-53-0
% [weight]. 1–5%
Classification 67/548/EC: Xi ; R36
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

Additional notes
Full text of R-, H- and EUH-phrases: see section 16.

3.2 Blends

Dangerous constituents

none

4 First aid measures

4.1 Description of first-aid measures

General information

In case of doubt or symptoms, consult a doctor.

Following inhalation:

Remove to fresh air and keep warm and rest.

Following skin contact

Wash immediately with copious amounts of water and soap. Apply fatty cream.

Following eye contact:

Immediately rinse opened eyes under running water and contact ophthalmologist.

Following ingestion:

Rinse mouth immediately and drink copious amounts of water. Seek medical advice at once.

4.2 Most important symptoms and effects, both acute and delayed

None known

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

None

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5 Fire control measures

5.1 Extinguishing media

Suitable fire-extinguishing agents

Water, foam. Extinguishing powder: Carbon dioxide (CO2). Sand. Nitrogen. Fire blanket.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon dioxide (CO2). Carbon monoxide.

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus and chemically protective clothing.

5.4 Additional information

The product itself does not burn. Adjust extinguishing measures to the environmental conditions.

6 What to do in case of unintentional release

6.1 Personal precautions, protective equipment and emergency procedure

Split product presents a significant slip hazard.

6.2 Environmental precautions

Prevent entry into drains, sewers and water courses. Prevent entry into soil.

6.3 Methods and material for containment and cleaning up

Remove spilled material immediately. Clean up with absorbent material (cloth, fleece). Wash with copious **amounts of water. Dispose of removed material according to the Disposal section.**

6.4 Reference to other sections

Safe handling, see section 7.
Personal protection equipment, see section 8.
Disposal, see section 13.

7 Handling and storage

7.1 Precautions for safe handling

Keep container tightly closed

7.2 Conditions for safe storage, including any incompatibilities

Only store in original container. Protect against freezing.
Storage alongside other materials
Storage class (TRGS 510) : 12

7.3 Specific end uses

Observe technical data sheet. Observe instructions for use.

8 Exposure controls and personal protection

8.1 Control parameters

Occupational exposure limits

Occupational exposure limits according to RCP method conforming to TRGS 900 (D)
Limit value type (country of origin)
Calculated RC occupational exposure limit (D)
Limit:
Not applicable

8.2 Exposure controls/ personal protection

Eye/face protection

Wear protective goggles in case of splash hazard.

Appropriate eye protection

In case of splash hazard according to EN 166.

Skin protection

Hand protection

For extended exposure periods wear safety gloves.

Appropriate glove type: EN 374
Appropriate material: NBR (nitrile rubber)
Breakthrough time (maximum wear period): 480 min.
Layer thickness: 0.4 mm
Remarks: Consult the glove manufacturer for the exact breakthrough time and observe.

General protective and hygienic measures

Do not carry cleaning cloths saturated with the product in your trouser pockets. Do not eat, drink, smoke or snuff at the place of work. Avoid contact with skin, eyes and clothing. P362 – Take off contaminated clothing and wash before reuse. P264 – Wash hands thoroughly after handling.

8.3 Additional information

No tests have been carried out. The selection is based on to the best of knowledge and the information on the ingredients. As the resistance of glove material is not predictable for mixtures it has to be tested before use.

9 Physical and chemical properties

9.1 Physical and chemical properties

Appearance:	**liquid**
Colour:	**blue**
Odour:	**Characteristic**

Safety-relevant basic data

Boiling point/range:	(1013 hPa)	approx.	100 °C

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Flash point:			Not applicable		
Lower explosion limit:			Not applicable		
Upper explosion limit:			Not applicable		
Vapour pressure:	(50 °C)		Not applicable		
Density:	(20 °C)	approx.	1	g/cm3	
Solvent separation test	(20 °C)		Not applicable		
pH value:		approx.	8.8		
Flow time:	(20 °C)		20	s	DIN cup 4 mm
Maximum VOC content (EC):			0	% (weight)	
Maximum VOC content (CH):			0	% (weight)	

9.2 Other information

None

10 Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Nondestructive distillation with standard pressure.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Sulphurous oxides, carbon monoxide. Carbon dioxide (CO2).

11 Information on toxicology

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Parameter:	ATE_{mix} calculated
Route of exposure:	Oral
Effect dose:	> 2000 mg/kg

Acute dermal toxicity

Parameter:	ATE_{mix} calculated
Route of exposure:	Dermal
Effect dose:	> 2000 mg/kg

Acute inhalative toxicity

Parameter:	ATE_{mix} calculated
Route of exposure:	Inhalation
Effect dose:	> 20 mg/m3

11.2 Toxicokinetics, metabolism and distribution

No data available for the compound/mixture.

11.3 Other adverse effects

Degreasing effect on skin.

11.4 Additional information

Compound not tested. Information derived from the properties of the individual components.

12 Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No indication of bioaccumulative potential.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This substance does not fulfil the REACH PBT/vPvB criteria, Annex XIII.

12.6 Other adverse effects

None known

12.7 Other ecological information

None

13 Disposal instructions

The following waste codes are recommendations based on the expected use of the product. Other waste codes may be assigned in some circumstances as a result of special usage and disposal conditions for the user.

13.1 Waste treatment methods

Disposal of the product/packaging

Waste code/designations according to EAK / AVV

Product waste code

12 01 99 – wastes not otherwise specified

Packaging waste code

15 01 02 – plastic packaging

Waste treatment options

Correct disposal/packaging

Contaminated packaging have to be emptied fully. Cleaned containers can be taken to an approved waste handling site for recycling Dispose of unclean packaging in the same way as of the substance itself.

13.2 Additional information

The waste codes have been assigned based on the most common use of the material. Contaminants built by the actual use may not be accounted for.

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14 Information on transport

14.1 UN number
Not a dangerous substance as defined in the above regulations.

14.2 Proper UN shipping name
Not a dangerous substance as defined in the above regulations.

14.3 Transport hazard classes
Not a dangerous substance as defined in the above regulations.

14.4 Packaging group
Not a dangerous substance as defined in the above regulations.

14.5 Environmental hazards
Not a dangerous substance as defined in the above regulations.

14.6 Special precautions for user
None

15 Legal regulations

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

EU regulations

Other EU regulations

Classification of the ingredients according to Regulation 648/2004/EC

< 5% non-ionic tensides

< 5% anionic tensides

National legislation

AT: Classification according to Austrian regulations (Chemicals Act/ChemV).

CH: Observe Chemicals Act (ChemV) and Ordinance on Chemical Risk Reduction (Chem RRV).

Water hazard class

Class: 1 (slightly hazardous for water) classification according to VwVwS.

Other regulations, limitations and prohibitory ordinances:

VbF class: -

Industrial Safety and Health Ordinance (BetrSichV)

Not a flammable liquid according to BetrSichV.

15.2 Chemical safety assessment
No chemical safety assessment has been performed for this substance.

16 Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX: adsorbable organohalogens

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification Labelling and Packaging (Regulation (EC) No. 1272/2008)

EAK / AVV: europäischer Abfallschlüsselkatalog (European Waste Catalogue)

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

International Maritime Code for Dangerous Goods

RCP: reciprocal calculation procedure

RID: Règlement international concernant le transport des marchandieses dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

TRGS: Technische Regel für den Umgang mit Gefahrstoffen (Technical rules for the handling of dangerous substances)

VbF: Verordnung über brennbare Flüssigkeiten (ordinance on flammable liquids)

VOC: volatile organic compound

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe (regulatory framework for substances hazardous to water) WGK Wassergefährdungsklasse (water hazard class)

16.3 Key literature references and sources for data

DGUV: GESTIS database on hazardous substances

ECHA: Classification And Labelling Inventory

ECHA: Pre-registered Substances

ECHA: Registered Substances

EC safety data sheets of upstream suppliers

ESIS: European Chemical Substances Information System

GDL: Gefahrstoffdatenbank der Länder (Federal states database on hazardous substances)

UBA: Rigoletto: Substances Hazardous to Water

16.4 Relevant R, H and EUH phrases (number and full text)

None

16.5 Training information

None

16.6 Additional information

None

The information provided in this safety data sheet is based on the latest stat of our knowledge at the time of printing. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In case of mixing or processing the product with other products, or in case of processing the product, the information in this safety data sheet is not valid for the generated material, unless explicitly stated otherwise.

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