

# SAFETY DATA SHEET

In accordance with 453/2010 and 1272/2008

(All references to EU regulations and directives are abbreviated into only the numeric term)

Issued 11.01.2024

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Trade name	<b>DS 650 L</b>
Supplier's product number	760650L

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

Identified uses	Surface treatment of metal
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### 1.3. Details of the supplier of the safety data sheet

Company:	Bungard Elektronik GmbH & Co. KG
Adress:	Rilkestraße 1 D - 51570 Windeck
Tel.:	+49/2292/92828-0
Fax:	+49/2292/92828-29
E-Mail:	info@bungard.de

### 1.4. Emergency telephone number

Medical Emergency information in case of poisoning: Poison Information Center Mainz – 24h – Phone: +49 6131 19240

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### Classification in accordance with 1272/2008

Skin Irritant (Category 2)  
Irritates eyes (Category 2)  
Specific organ toxicity - single exposure; May cause respiratory irritation (Category 3 resp)

### 2.2. Label elements

#### Label information in accordance with 1272/2008

Hazard pictograms



Signal words	Warning
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Hazard statements

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary statements

P302+P352	IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312	Call a a POISON CENTER or doctor/physician if you feel unwell
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists: Get medical advice/attention

### 2.3. Other hazards

Not relevant.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is composed of several substances dissolved in water.

### 3.2. Mixtures

Note that the table shows known hazards of the ingredients in a pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
<b>POTASSIUM CARBONATE</b>		
CAS No 584-08-7 EC No 209-529-3	Skin Irrit 2, Eye Irrit 2, STOT SE 3 <i>resp</i> ; H315, H319, H335	50 - 60%

Sum of max concentrations 100%

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complement used in the calculation of the hazards of this mixture, see Section 16b.

Also contains component(s) not necessary to label.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### Generally

Allow the injured person to rest in a warm place which has fresh air. Flush the nose, mouth and throat with water. Seek medical attention.

Put the person in the three-quarters prone recovery position if he or she is unconscious or groggy.

Never leave a injured person alone. Their condition may rapidly worsen, sometimes several hours after the poisoning.

Immediately call a POISON CENTER or doctor/physician.

#### Upon breathing in

Let the injured person rest in a warm place with fresh air or oxygen tank, and arrange to have them transported immediately to a hospital.

Call a doctor/physician or Poison Information Centre (Emergency tel 112), even if no symptoms are noticeable.

#### Upon contact with the eyes

Immediately rinse with lukewarm water 15 - 20 minutes with eyes wide open; Transport the injured person to the hospital immediately.

Remove solid particles.

#### Upon skin contact

Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.

Remove contaminated clothes.

#### Upon ingestion

First rinse your mouth carefully and SPIT OUT the water. Then drink at least half a litre of water, if possible with active carbon, and then induce vomiting. Contact Poison Information Centre (emergency number 112).

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

Information on symptoms are ambiguous or missing for this product.

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

Not relevant.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

#### **Recommended extinguishing agents**

All normal extinguishing agents may be used.

#### **Unsuitable extinguishing agents**

Among common extinguishing agents there are none that are overtly unsuitable.

### 5.2. Special hazards arising from the substance or mixture

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.

In case of fire, substances hazardous to health, or substances harmful in other respects, may be dispersed.

Note that the extinguishing water may contain toxic substances or other hazardous substances.

### 5.3. Advice for fire-fighters

Protective measures should be taken regarding other material at the site of the fire.

In case of fire use a respirator mask.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Chemical protection suits should be worn for all salvage and decontamination work.

Gas mask with an A type filter (brown), or a dust filter IIb (P2), may be required when decontaminating spillage.

Do not allow the product to flow into the sewer; if this should occur however, contact your local sewer service immediately.

In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).

Upon substantial spillage 1 - 50 tonnes into a river or lake, contact the emergency services, tel 112.

Avoid inhalation and exposure to skin and eyes.

Avoid emissions into soil, water or air.

Avoid discharge into sewers.

### 6.2. Environmental precautions

Avoid discharge into soil, water or air.

Avoid discharge into sewers.

Dam up the spillage to prevent it reaching street sewers or flowing into the ground.

Always contact the fire department when accidental spillage of this product occurs. Show this safety data sheet.

### 6.3. Methods and material for containment and cleaning up

Clean-up of repeated spillages, or larger spillages of this product, should be executed by professional decontamination workers.

Wash off with large quantities of water (50-100 volume parts). Dry up afterwards.

To be collected with caution and transported to a waste disposal facility.

Do not try to clean up yourself, unless you are properly trained for decontaminating this product.

Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority sanitisation works. Present this safety data sheet.

### 6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Do not inhale the fumes and avoid exposure to skin, eyes and clothing.

When working with dangerous substances a fume cupboard ought to be used, or else utilise a space which is well ventilated.

Keep out of reach of children and pets.

The product should be stored in a manner which prevents hazards to health and the environment. Avoid

exposure to humans and animals and do not discharge the product in a sensitive environment.  
Store this product separately from food items and keep it out of the reach of children and pets.  
Do not eat, drink or smoke in premises where this product is stored.  
Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in Section 6 of this safety data sheet.  
Avoid handling in a manner which will raise dust.

#### **7.2. Conditions for safe storage, including any incompatibilities**

Do not store above normal room temperature.  
Handle in a fume cupboard or in a space which is equally safe.  
Handle in premises which have modern ventilation standards.  
Consult the county environmental authority or the environmental office for advice about safe storage.  
Storage of larger quantities should be done in consultation with the Health and Safety Inspection Board and the Emergency Services.  
Store in a well-ventilated and locked place.  
Smaller amounts may be stored in a laboratory or another appropriate workplace.  
An evacuation plan should be available and evacuation routes must not be blocked.  
Emergency showers and eye-rinsing facilities must be available at the workplace.  
Store only in the original package.

#### **7.3. Specific end uses**

Not relevant.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

#### **8.1.1. National limit values, United Kingdom**

All ingredients (cf. Section 3) lack occupational exposure limit values.

### **8.2. Exposure controls**

In terms of minimizing risks, attention must be paid to the health hazards (see Sections 2, 3 and 10) of this product or any of its ingredients according to EU directives 89/391 and 98/24 and national occupational legislation.

Use protective glasses, safety goggles, or a visor.

Gloves labelled "Low Chemical resistant" or "Waterproof" or with the pictogram indicated here are recommended.



Choose a mechanical wear strength in line with the nature of the work in accordance to this pictogram with four digits that indicate resistance against abrasion, cutting effects, tear and puncture, where 1 is the lowest and 4 or 5 is the best.

Protect all exposed skin from coming into contact with the product.

A breathing mask of the A filter (brown) type, or a Ilb (P2) dust filter may be required.

A protective mask, with a B filter (grey) or an Ilb (P2) dust filter, may be required.

For limitation of environmental exposure, see Section 12.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1. Information on basic physical and chemical properties**

a) Appearance	Form: liquid Colour: Transparent
b) Odour	Weakly uncharacteristic
c) Odour threshold	Not applicable
d) pH	12-13
e) Melting point/freezing point	Not applicable
f) Initial boiling point and boiling range	Not applicable
g) Flash point	Not applicable
h) Evaporation rate	Not applicable

i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not applicable
k) Vapour pressure	Not applicable
l) Vapour density	Not applicable
m) Relative density	1.4-1.5 kg/L
n) Solubility	Solubility in water: Unlimited solubility
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not applicable
q) Decomposition temperature	Not applicable
r) Viscosity	Not applicable
s) Explosive properties	Not applicable
t) Oxidising properties	Not applicable

## 9.2. Other information

No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reacts vigorously with acids with gas development.

### 10.2. Chemical stability

The product is stable at normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

Not indicated

### 10.4. Conditions to avoid

Not indicated

### 10.5. Incompatible materials

Not indicated

### 10.6. Hazardous decomposition products

Not indicated

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### General or unspecific toxicity

Note that the product is hazardous to health.

#### Harmfulness

The product is a health hazard.

#### Repeated dose toxicity

To the best of our knowledge, no chronic effects have been reported for this product.

#### Sensibilisation

Eczema (atopical or unidentified) may occur.

#### Corrosive and irritating effects

The product is suspected to be skin corrosive due to the high pH.

#### Synergism and antagonism

Enhances the risk of allergy for other substances.

#### Effect on judgement and other psychological effects

In high doses, influence on discernment or other mental states cannot be ruled out.

#### Effect on human microflora

Harmful effects on human micro-flora can not be ruled out.

**Relevant toxicological properties****POTASSIUM CARBONATE**

LC50 rat (Inhalation) 4h > 0.5 mg/L

LD50 rabbit (Orally) 24h = 1870 mg/kg

LD50 rat (Orally) 24h > 2000 mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**POTASSIUM CARBONATE**

LC50 Freshwater water flea (*Daphnia magna*) 48h = 640 mg/l

The product is classified as being hazardous to health, or contains a substance which is hazardous to health.

Harmful impact on animals, plants and micro-organisms in the local environment cannot be ruled out.

The product is, or contains, a substance which has been classified as an irritant. Harmful effects on animals, plants and micro-organisms in the local environment cannot be ruled out.

### 12.2. Persistence and degradability

No information about persistence or degradability exists but there is no reason to suppose that the product is persistent.

### 12.3. Bioaccumulative potential

No information exists on bioaccumulation, but there is no cause for concern in respect of this.

### 12.4. Mobility in soil

No information about mobility in the nature exists but there is no reason to suppose the product to be ecologically harmful because of this.

### 12.5. Results of PBT and vPvB assessment

Not indicated

### 12.6. Other adverse effects

Not indicated

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste handling for the product**

The product is toxic or hazardous to health and any waste from it should therefore be considered dangerous, if it is not treated in order to eliminate this risk.

Also take local regulations for dealing with waste into account.

**Recycling of the product**

This product is not usually recycled.

**Transportation of waste**

Waste class J(1) - Substances classified as harmful or irritating.

**Waste handling for the pack material****Information on pack material**

Pack: PLASTDUNK

## SECTION 14: TRANSPORT INFORMATION

This product is only supposed to be transported by road or railway and just the transport regulations ADR/RID thus apply. If other means of transport are to be used, contact the publisher of this safety data sheet.

### 14.1. UN number

Not classified as dangerous goods

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

### SECTION 15: REGULATORY INFORMATION

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

Not applicable.

#### 15.2. Chemical safety assessment

Chemical safety report according to 1907/2006 Annex I is not required for this product.

### SECTION 16: OTHER INFORMATION

#### 16a. Indication of where changes have been made to the previous version of the safety data sheet

##### Revisions of this document

This is the first version.

#### 16b. Legend to abbreviations and acronyms used in the safety data sheet

##### Full texts for Hazard Class and Category Code mentioned in section 3

<i>No phys haz</i>	Non-assigned physical hazard
Skin Irrit 2	Skin Irritant (Category 2)
Eye Irrit 2	Irritates eyes (Category 2)
STOT SE 3resp	Specific organ toxicity - single exposure; May cause respiratory irritation (Category 3 resp)

##### Comprehensive definition of the hazards mentioned in Section 2

###### Skin Irrit 2

One or more criteria 1-3 for irritation of skin is applicable

###### Eye Irrit 2

If, when applied to the eye of an animal, a substance produces at least in 2 of 3 tested animals, a positive response of:

- corneal opacity  $\geq 1$  and/or
- iritis  $\geq 1$ , and/or
- conjunctival redness  $\geq 2$  and/or
- conjunctival oedema (chemosis)  $\geq 2$

calculated as the mean scores following grading at 24, 48 and 72 hours after installation of the test material, and which fully reverses within an observation period of 21 days

###### STOT SE 3resp

Transient target organ effects: Respiratory tract irritation. These are target organ effects for which a substance does not meet the criteria to be classified in Categories 1 or 2. These are effects which adversely alter human function for a short duration after exposure and from which humans may recover in a reasonable period without leaving significant alteration of structure or function

##### Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

#### 16c. Key literature references and sources for data

##### Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2015-09-16.

Where such data was lacking, on the second hand the documentation on which this official classification is based was used, e.g. IUCLID (International Uniform Chemical Information Database). On the third hand,

information was used from reputable international chemical suppliers, and on the fourth hand from other available information, e.g. safety data sheets from other suppliers or information from non-profit associations, whereby the reliability of the source was judged by an expert. If, in spite of this, reliable information was not found, the hazards were judged by expert opinions based on the known properties of similar substances, and according to the principles in 1907/2006 and 1272/2008.

**Full texts for Regulations mentioned in this Safety Data Sheet**

- 453/2010 COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- 1272/2008 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- 89/391 COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work
- 98/24 COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)
- 1907/2006 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC Annex I

**16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification**

The calculation of the hazards of this mixture has been performed as an evaluation by applying a weight of evidence determination using expert judgement in accordance with 1272/2008 Annex I, weighing all available information having a bearing on the determination of the hazards of the mixture, and in accordance with 1907/2006 Annex XI.

**16e. List of relevant hazard statements and/or precautionary statements**

**Full texts for hazard statements mentioned in section 3**

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation

**16f. Advice on any training appropriate for workers to ensure protection of human health and the environment**

**Warning for misuse**

This product can cause harm if used improperly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with the directions for use.

**Other relevant information**

**Directions for use**

Directions for use is distributed with the product

**Information on package**

Pack: PLASTDUNK

**Editorial information**