

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

Printing date: 11.04.2014

Revision: 8

Revision: 11.04.2014

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

- **Date of compilation:** 05.08.2011
- **1.1 Product identifier**
- **Trade name:** Solder Paste S62-XF3+ - Sn62Pb36Ag2; S63-XF3+ - Sn63Pb37; S62-GF3+ - Sn62Pb36Ag2; S62-HF3+ - Sn62Pb36Ag
- **Article number(s):**
 - bz026
 - 206292****
 - 206293****
 - 206002****
 - 206013****
- **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:**
Solder Paste
for reflow soldering
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
Balver Zinn
Josef Jost GmbH & Co.KG
Blintroper Weg 11
D-58802 Balve · Germany
Phone: +49 2375 915 – 0
Fax: +49 2375 915 – 114
E-Mail: Info@BalverZinn.com
- **Manufacturer:**
Cobar Europe BV
Aluminiumstraat 2
NL-4823 AL Breda · Netherlands
Phone: +31 76 5445566
Fax: +31 76 5445577
E-Mail: Info@Cobar.com
- **E-mail address of the competent person responsible for the Safety Data Sheet:**
kontakt@trabaserio.eu · Please DO NOT use to request MSDS's.
- **Informing department:** Technical Support of the Supplier
- **1.4 Emergency telephone number:**
Giftnotruf Berlin Phone: +49 30 / 30686 790 - Helpdesk in German and English

SECTION 2: Hazards identification

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



GHS08 health hazard

- | | |
|-----------|---|
| Repr. 1A | H360 May damage fertility or the unborn child. |
| STOT RE 2 | H373 May cause damage to organs through prolonged or repeated exposure. |

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GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



T; Toxic

R61: May cause harm to the unborn child.



Xn; Harmful

R20/22-62: Harmful by inhalation and if swallowed. Possible risk of impaired fertility.



N; Dangerous for the environment

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

R33: Danger of cumulative effects.

· **Information concerning particular hazards for human and environment:**

Contact with skin and inhalation of aerosols/ vapours should be avoided.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **2.2 Label elements**

· **Labelling according to EU guidelines:**

· **Code letter and hazard designation of product:**



T Toxic

N Dangerous for the environment

· **Hazard-determining components of labelling:**

Lead (Pb)

· **Risk phrases:**

61 May cause harm to the unborn child.

20/22 Also harmful by inhalation and if swallowed.

33 Danger of cumulative effects.

62 Possible risk of impaired fertility.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

53 Avoid exposure - obtain special instructions before use.

9 Keep container in a well-ventilated place.

23 Do not breathe vapour.

23 Do not breathe fumes.

36/37 Wear suitable protective clothing and gloves.

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- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· **Special labelling of certain preparations:**

Contains Resin acids and Rosin acids, fumarated, esters with glycerol. May produce an allergic reaction.
Restricted to professional users.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**


















- **PBT:** not applicable
· **vPvB:** not applicable

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Solder Paste

· **Dangerous components:**

CAS: 7439-92-1 EINECS: 231-100-4 Index number: 082-001-00-6	Lead (Pb)  T R61;  Xn R62-20/22;  N R50/53 R33 -----  Repr. 1A, H360; STOT RE 2, H373  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Acute Tox. 4, H302; Acute Tox. 4, H332	25 - 50%
CAS: 7440-22-4 EINECS: 231-131-3	Silver (Ag) substance with a Community workplace exposure limit	0 - 2.5%
CAS: 2687-94-7 ELINCS: 403-700-8 Index number: 613-098-00-0	1-Octyl-2-pyrrolidone  C R34;  N R51/53 -----  Skin Corr. 1B, H314  Aquatic Chronic 2, H411	1 - 5%
CAS: 6938-94-9	Hexanedioic acid, bis(1-methylethyl) ester  Xi R36/37/38 -----  Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	> 2%
ELINCS: 484-050-2	Undecanoic acid, 11-amino-, polyamide  N R50/53 -----  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≤ 2.5%
CAS: 97489-11-7 EC number: 307-051-0	Resin acids and Rosin acids, fumarated, esters with glycerol  Xi R36;  Xi R43 -----  Eye Irrit. 2, H319; Skin Sens. 1, H317	≤ 2.5%
· Other components:		
CAS: 7440-31-5 EINECS: 231-141-8	Tin (Sn)	50 - 60%

· **Additional information** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Take affected persons out of danger area and instruct to lie down.

Prevent cooling.

Personal protection for the person providing first aid.

Do not leave affected persons unsupervised.

· **After inhalation:**

If dust or other particles are generated during processing, it is necessary to provide adequate ventilation and/or respiration protection. If dust/particles have been respired call physician.

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- **After skin contact:**
Rinse with lukewarm water and soap.
Consult doctor in case of symptoms.
Take off contaminated clothing and wash it before reuse.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult doctor.
Remove contact lenses, if present and easy to do.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting - Danger of chemical pneumonia!
Call a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** Allergic reactions
- **Information for doctor:** Treat symptomatically.
- **Danger:**
Danger of pulmonary oedema.
Danger of pneumonia.
- **4.3 Indication of any immediate medical attention and special treatment needed**
Medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Dry sand
Fire-extinguishing powder
Special powder for metal fires. Do not use water.
- **5.2 Special hazards arising from the substance or mixture:**
Can be released in case of fire:
Irritant gases/vapours
Lead oxide vapour or fume
Toxic or harmful metal oxides
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale combustion gases.



Wear self-contained breathing apparatus.

- **Additional information:** Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Use breathing protection against the effects of fumes/dust/aerosol.
Avoid skin and eye contact.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.
Do not allow to enter the ground/soil.

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If material reaches soil inform authorities responsible for such cases.

· **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Collect mechanically.

Clean up affected area.

Send for recovery or disposal in suitable containers.

Dispose of the material collected according to regulations.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Ensure that suitable extractors are available on processing machines.

Waste air is to be released into the atmosphere only via suitable separators.

If dust/smoke is developed, avoid breathing dust/smoke.

Make sure that all applicable workplace limits are observed.

Avoid skin and eye contact.

Open and handle container with care.

· **Information about protection against explosions and fires:** Keep breathing equipment ready.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:**

Observe all local and national regulations for storage of water polluting products.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:**

Store container in a well ventilated position.

Store in cool, dry conditions in well sealed containers.



Store in a locked cabinet or with access restricted to specifically instructed persons.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**

Respirable dusts cannot be liberated from the product as delivered.

7440-22-4 Silver (Ag)

WEL (Great Britain)

Long-term value: 0.1 mg/m³

IOELV (European Union)

Long-term value: 0.1 mg/m³

· **DNELs** no data available

· **PNECs** no data available

· **Additional information:** The lists that were valid during the compilation were used as basis.

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· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Do not eat, drink or smoke while working.

Instantly remove any contaminated garments.

Store protective clothing separately.

Do not inhale dust / smoke / mist.

Pregnant women must strictly avoid inhalation or contact with the skin.

Avoid contact with the eyes and skin.

Use skin protection cream for preventive skin protection.

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

· **Breathing equipment:** Breathing equipment necessary if dusts or fumes are formed.

· **Recommended filter device for short term use:** Combination filter A-P2

· **Protection of hands:**

Heat resistant gloves

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

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

Check the permeability prior to each renewed use of the glove.

To avoid skin problems reduce the wearing of gloves to the required minimum.

Sensibilization by the components in the glove materials is possible.

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

· **Material of gloves**

Carry heat insulating gloves by rough soldering work.

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** Protective gloves should be replaced at first signs of wear.

· **Eye protection:**



Tightly sealed safety glasses

· **Body protection:**

Protective work clothing

Wear heat-resistant protective clothing when handling hot/molten product.

Protective clothing should be selected specifically for the working place.

· **Limitation and supervision of exposure into the environment**

Do not allow to enter drainage system, surface or ground water.

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:	pasty
Colour:	metallic silver-coloured

· **Smell:** characteristic

· **Odour threshold:** not determined - no data available

· **pH-value:** not applicable

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· Change in condition	
Melting point/Melting range:	178 °C
Boiling point/Boiling range:	not determined
· Flash point:	not applicable
· Inflammability (solid, gaseous)	The product is not flammable.
· Ignition temperature:	not applicable
· Decomposition temperature:	no data available
· Self-inflammability:	The product/the substance is not selfigniting.
· Danger of explosion:	Product is not explosive.
· Critical values for explosion:	
Lower:	not determined
Upper:	not determined
· Oxidizing properties	Not classified as oxidising.
· Vapour pressure:	no data available
· Density	no data available
· Settled apparent density	not applicable
· Relative density	no data available
· Vapour density (AIR = 1)	not applicable
· Evaporation rate	not applicable
· Solubility in / Miscibility with	
Water:	insoluble
· Organic solvents:	no data available
· Partition coefficient (n-octanol/water):	no data available
· Viscosity:	
dynamic:	not determined
kinematic:	not determined
· 9.2 Other information	Further informations please refer to technical data sheet.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** see 10.3
- **10.2 Chemical stability** The product / the substance is chemically stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong acids and oxidizing agents
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Strong oxidizing agents
Strong acids
- **10.6 Hazardous decomposition products:**
Irritant gases/vapours
Toxic or harmful metal oxides
Leadoxide vapour
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

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SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity:**

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

2687-94-7 1-Octyl-2-pyrrolidone

Oral	LD50	> 2200 mg/kg (rat)
------	------	--------------------

Dermal	LD50	> 4000 mg/kg (rabbit)
--------	------	-----------------------

Undecanoic acid, 11-amino-, polyamide

Oral	LD50	> 2000 mg/kg (rat)
------	------	--------------------

Dermal	LD50	> 2000 mg/kg (rat)
--------	------	--------------------

Inhalative	LC50	> 6.3 mg/l (rat)
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· **Primary irritant effect:**

· **on the skin:** Causes skin irritation.

· **on the eye:** Causes serious eye irritation.

· **Sensitization:** Contains sensitising substances. May produce an allergic reaction.

· **Subacute to chronic toxicity:**

Undecanoic acid, 11-amino-, polyamide

Oral	NOAEL (28 d)	1000 mg/kg/d (rat)
------	--------------	--------------------

· **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:

Toxic

Harmful

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

According Regulation 1272/2008/EC [CLP]:

Repr. 1A

According to Directive 67/548/EEC or 1999/45/EC:

Repr. Cat. 2: Product should be regarded as if it caused developmental toxicity to humans.

Repr. Cat. 3: Product causes concern for human fertility.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

7439-92-1 Lead (Pb)

EC50/48 h	0.1 mg/l (daphnia)
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IC50/72 h	0.14 mg/l (algae)
-----------	-------------------

LC50/96 h	0.14 mg/l (rainbow trout (oncorhynchus mykiss))
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2687-94-7 1-Octyl-2-pyrrolidone

EC50/48 h	12.2 mg/l (water flea (daphnia magna))
-----------	--

EC50/72 h	6.2 mg/l (algae (selenastrum capricornutum))
-----------	--

LC50/96 h	>22 - <46 mg/l (danio rerio)
-----------	------------------------------

Undecanoic acid, 11-amino-, polyamide

EC50/48 h	> 0.024 mg/l (water flea (daphnia magna))
-----------	---

ErC50	0.025 mg/l (algae)
-------	--------------------

LC50/96 h	> 0.024 mg/l (fish)
-----------	---------------------

NOEC	0.0073 mg/l (algae)
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· **12.2 Persistence and degradability** No further relevant information available.

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- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **Chemical Oxygen Demand (COD-value):** no data available
- **BOD5-value:** no data available
- **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**
 - 50 - 60% Sn
 - 25 - 50% Pb
 - 0 - 2.5% Ag
- **General notes:**
 - Very toxic to aquatic life with long lasting effects.
 - Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.
 - Danger to drinking water if even extremely small quantities leak into soil.
- **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**



Disposal must be made according to official regulations.

- Contact manufacturer for recycling information.
- **Waste disposal key number:** According to local/national regulations.

- **European waste catalogue:**

16 03 03*	inorganic wastes containing dangerous substances
15 01 02	plastic packaging

- **Uncleaned packagings:**
- **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.

SECTION 14: Transport information

- | | |
|---|--|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA | UN3077 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA | UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead, 1-Octyl-2-pyrrolidone)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead; 1-Octyl-2-pyrrolidone; Undecanoic acid, 11-amino-, polyamide), MARINE POLLUTANT
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead, 1-Octyl-2-pyrrolidone) |

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· **14.3 Transport hazard class(es)**

· **ADR**



· **Class** 9 (M7) Miscellaneous dangerous substances and articles.
· **Label** 9

· **IMDG, IATA**



· **Class** 9 Miscellaneous dangerous substances and articles.
· **Label** 9

· **14.4 Packing group**

· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**

· **Marine pollutant:** Environmentally hazardous substance, solid
YES
Symbol (fish and tree)
· **Special marking (ADR):** Symbol (fish and tree)
· **Special marking (IATA):** Symbol (fish and tree)

· **14.6 Special precautions for user:**

· **Kemler Number:** Warning: Miscellaneous dangerous substances and articles.
90
· **EMS Number:** F-A,S-F
· **Segregation groups:** Heavy metals and their salts (including their organometallic compounds)

· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable.

· **Additional Transport information:**

Transport by post may be prohibited or restricted.

· **ADR**

· **Excepted quantities (EQ):** E1
· **Limited quantities (LQ):** 5 kg
· **Transport category:** 3
· **Tunnel restriction code:** E

· **UN "Model Regulation":**

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead, 1-Octyl-2-pyrrolidone), 9, III

SECTION 15: Regulatory information

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

· **National regulations**

· **Information about limitation of use:**

Workers should not be exposed to the hazardous materials contained in this mixture. Exceptions can be made by the authorities in certain exceptional cases.

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning women of child-bearing age must be observed.

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- **Decree to be applied in case of technical fault:**
Quantity limits according to „EC Seveso Directive“ should be observed.
- **Other regulations, limitations and prohibitive regulations**
Observe restrictions on the marketing and use according to Annex XVII of Regulation (EC) No 1907/2006.
- **Substances of very high concern (SVHC) according to REACH, Article 57**
This mixture does not contain any substances, that are included in the candidate list for eventual authorisation.
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Concerning revised data:

The current MSDS has been changed against the previous version. Chapters which have been changed, are marked with an asterisk „“ at the chapter number.*

· **Relevant phrases:**

- H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H360 May damage fertility or the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
-
- R20/22 Harmful by inhalation and if swallowed.
 R33 Danger of cumulative effects.
 R34 Causes burns.
 R36 Irritating to eyes.
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R43 May cause sensitisation by skin contact.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R61 May cause harm to the unborn child.
 R62 Possible risk of impaired fertility.

· **Recommended restriction of use:** *Industrial use*

· **Department issuing MSDS:**

TRABASERIO S.L.
 Plaça Constitució N° 9, 3° o Àtico
 07100 Sóller / Spain
 Tel. & Fax: +34 971 63 34 64 · E-Mail: kontakt@trabaserio.eu

· **Abbreviations and acronyms:**

RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organization
 GGVSEB (Gefahrgutverordnung Straße, Eisenbahn und Binnenschifffahrt): Ordinance on the national and international carriage of dangerous goods by road, rail, and inland waterways
 ADR: Accord Européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods

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(Contd. of page 11)

*IATA: International Air Transport Association**GHS: Globally Harmonized System of Classification and Labelling of Chemicals**CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures**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)**DNEL: Derived No-Effect Level (REACH)**PNEC: Predicted No-Effect Concentration (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**SVHC: Substances of Very High Concern (Candidate List of Substances of Very High Concern for Authorisation)**vPvB: very Persistent and very Bioaccumulative**PBT: Persistent, Bioaccumulative, Toxic**Acute Tox. 4: Acute toxicity, Hazard Category 4**Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B**Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2**Skin Sens. 1: Sensitisation - Skin, Hazard Category 1**Repr. 1A: Reproductive toxicity, Hazard Category 1A**STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3**STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2**Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2*

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

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