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* SECTION 1: Identification

Product identifier

Trade name: Reserva Module

Article number: 4,240,374

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

Application of the substance / the mixture DC home storage for PV systems

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Fronius International GmbH
Fronius Straße 5
A-4642 Sattledt
T: +43 7242 241 0
Importer
Fronius Australia Pty Ltd
90-92 Lambeck Drive
Tullamarine VIC 3043
pv-customer-australia@fronius.com

Further information obtainable from:
welding.techsupport@fronius.com
msds.techsupport@fronius.com

Emergency telephone number:
+61 3 8340 2900
Available:
Mo - Th: 09:00 - 17:00 (AEST)
Fr: 09:00 - 14:00 (AEST)

SECTION 2: Hazard(s) Identification

Classification of the substance or mixture
The product is not classified, according to the Globally Harmonised System (GHS).
Additional information:
The product itself is declared as an article in sense of REACH (EC) No. 1907/2006 and is not subject to the provisions of classification in sense of the regulation (EC) No. 1272/2008.

Label elements
GHS label elements void
Hazard pictograms void
Signal word void
Hazard statements void
Additional information:
The product itself is declared as an article in sense of REACH (EC) No. 1907/2006 and is not subject to the provisions of labeling in sense of the regulation (EC) No. 1272/2008.
Other hazards
Lithium-ion batteries are gas-tight and harmless if the manufacturer's instructions are observed during use and handling.
Never use chargers that are not suitable for the type of battery with rechargeable batteries. The limits for

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maximum current load, charging and discharging voltage must be strictly adhered to! Do not short-circuit. Do not damage mechanically (pierce, deform, disassemble, etc.). Do not heat or burn above the permissible temperature. Keep batteries away from small children. Always store batteries in a dry and cool place.

Lithium-ion batteries are safe to use when used properly and within the parameters specified by the manufacturer. Incorrect handling or circumstances resulting in improper operation may result in leakage of battery contents and decomposition products, resulting in severe reactions hazardous to health and the environment. In principle, contact with leaked battery components can pose a risk to health and the environment. Sufficient body and respiratory protection is therefore required in contact with conspicuous batteries (leakage of contents, deformation, discoloration, dents, etc.). Lithium-ion batteries can react very violently in combination with fire, for example. Battery components with considerable energy can be emitted.

As with other batteries, lithium batteries can continue to be a source of danger even when they are supposedly discharged.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition and Information on Ingredients

Mixtures

Description:

Rechargeable lithium-ion batteries are articles from which no substance is released when used properly.
Nominal voltage = 102.4 V
Nominal power = 3159.04 Wh
Nominal capacity = 30.85 Ah
Weight per module = 35.5 kg

Dangerous components:		
CAS: 15365-14-7	Lithium iron phosphate	15 - 40%
CAS: 105-37-3	ethyl propionate Flammable liquids – Category 2, H225 Skin corrosion/irritation – Category 2, H315; Specific target organ toxicity (single exposure) – Category 3, H335	15 - 40%
CAS: 7440-50-8	copper foil	10 - 30%
CAS: 7429-90-5	aluminium foil	10 - 30%
CAS: 7782-42-5	Graphite	7 - 25%
CAS: 9011-17-0	Fluoropolymer (VDF/HFP)	3 - 15%
CAS: 96-49-1	ethylene carbonate Specific target organ toxicity (repeated exposure) – Category 2, H373 Acute toxicity - oral – Category 4, H302; Eye damage/irritation – Category 2A, H319	0 - 15%

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CAS: 108-32-7	propylene carbonate Eye damage/irritation – Category 2A, H319	0 - 15%
CAS: 21324-40-3	Lithium hexafluorophosphate(1-) Specific target organ toxicity (repeated exposure) – Category 1, H372 Skin corrosion/irritation – Category 1A, H314	0 - 15%
CAS: 9002-88-4	Polyethylene	0 - 5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First Aid Measures

Description of first aid measures
General information:
In normal cases no specific measures needed.
It always applies:
In case of discomfort or doubt, seek medical advice.
If unconscious, use a stable lateral position and do not administer anything through mouth.

The following measures apply to contact with the contents of a damaged battery:
After inhalation:
Supply fresh air; consult doctor in case of complaints.
In case of unconsciousness place patient stably in side position for transportation.
After skin contact:
Immediately wash with water and soap and rinse thoroughly.
Take off contaminated clothing and wash it before reuse.
Seek medical treatment in case of complaints.
After eye contact:
Rinse opened eye for several minutes under running water.
Remove contact lenses, if present and easy to do. Continue rinsing.
Consult an ophthalmologist or eye clinic immediately.
After swallowing:
Rinse mouth thoroughly with cold water. Do not induce vomiting. If the patient is fully conscious, give one or two glass of water to drink. Get medical attention immediately.
Most important symptoms and effects, both acute and delayed
No further relevant information available.
Indication of any immediate medical attention and special treatment needed
Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

SECTION 5: Fire Fighting Measures

Extinguishing media
Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water with full jet
Special hazards arising from the substance or mixture
Batteries may burst at high temperatures, which may result in flammable, toxic and/or corrosive vapours.

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May form hydrofluoric acid if the electrolyte comes into contact with water.
In case of fire, the following can be released:
COx
Hydrogen fluoride (HF)
Lithium oxides

Advice for firefighters

Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

Additional information
Switch off the power supply.
Remove container from fire, if possible without risk.
Cool endangered receptacles with water spray.
Ensure good ventilation.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Restricted access to the affected area until cleaning work is completed.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Avoid skin and eye contact with damaged batteries.
Do not breathe dust/fume/gas/mist/vapours/spray.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:
If the battery is damaged:
Cover leaked material with inert absorbent material (sand or soil) and dispose of in suitable containers.
Clean again.
Ensure adequate ventilation.
If the battery pack is in water, there is a risk of a weak electric shock. When the water is electrolysed, hydrogen is produced. Good ventilation must be ensured to prevent the concentration of hydrogen and an explosion of the hydrogen in the enclosed space as a result. If possible, remove the battery or battery pack from the water and inform the local police.

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 disposal information.

SECTION 7: Handling and Storage

Precautions for safe handling
In any case, the warnings on batteries and the instructions for use of devices and other applications must be carefully observed.
Use only the recommended battery types.
Lithium-ion batteries should preferably be stored at room temperature and dry (max. 40°C), large temperature fluctuations should be avoided. (e.g. do not store near heaters, do not permanently expose to sunlight).
Never open, mechanically damage or burn the battery!

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One of the most important risks when transporting batteries and battery-powered equipment is the short circuit of the battery caused by the contact of the two poles of the battery with other batteries, metal objects or other electrical conductors. Therefore, the packaged battery (cells) and batteries must be adequately separated to prevent short circuits and electrode damage.
Do not allow broken battery cells to come into contact with water. When handling battery packs of over 50 V, the operating personnel require appropriate insulation protection.
Observe protective measures and safety instructions.
Information about fire - and explosion protection:
Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Store in dry conditions.
Store in a cool location.
Protect from heat and direct sunlight.
Store in accordance with local/regional/national/international regulations.
Information about storage in one common storage facility:
Store away from oxidising agents.
Do not store together with acids.
Further information about storage conditions: Store in original container.
Recommended storage temperature:
room temperature
Longer storage with a load capacity between 25 and 75 %.
Storage class: 11
Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls and personal protection

Control parameters
Lithium-ion batteries are products from which no substances are released under normal and reasonably foreseeable conditions of use.

Ingredients with limit values that require monitoring at the workplace:	
CAS: 7429-90-5 aluminium foil	
WES	Long-term value: 10* 5** mg/m³ *metal dust;**welding, pyro powders
CAS: 7440-50-8 copper foil	
WES	Long-term value: 1* 0.2** mg/m³ *dust & mists (as Cu) **fume
CAS: 7782-42-5 Graphite	
WES	Long-term value: 3 mg/m³

Regulatory information WES: Workplace exposure standards for airborne contaminants

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DNELs		
CAS: 7429-90-5 aluminium		
Oral	Long-term exposure - systemic effects	7.9 mg/kg bw/d (consumer)
Inhalative	Long-term exposure - systemic effects	3.72 mg/m³ (workers)
	Long-term exposure - local effects	3.72 mg/m³ (workers)
CAS: 7440-50-8 copper foil		
Oral	Long-term exposure - systemic effects	0.041 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	137 mg/kg bw/d (consumer)
		137 mg/kg bw/d (workers)
	short-term exposure - systemic effects	273 mg/kg bw (consumer)
		273 mg/kg bw (workers)
Inhalative	Long-term exposure - local effects	1 mg/m³ (consumer)
		1 mg/m³ (workers)
	short-term exposure - local effects	1 mg/m³ (consumer)
		1 mg/m³ (workers)
CAS: 108-32-7 propylene carbonate		
Oral	Long-term exposure - systemic effects	10 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	10 mg/kg bw/d (consumer)
		20 mg/kg bw/d (workers)
	Long-term exposure - local effects	10 mg/cm² (workers)
Inhalative	Long-term exposure - systemic effects	17.4 mg/m³ (consumer)
		70.53 mg/m³ (workers)
	Long-term exposure - local effects	10 mg/m³ (consumer)
		20 mg/m³ (workers)

PNECs	
CAS: 7440-50-8 copper foil	
fresh water	6.3 µg/l
sea water	5.2 µg/l
STP	0.23 mg/l
sediment (fresh water)	87 mg/kg dw
sediment (sea water)	676 mg/kg dw
soil	65 mg/kg dw
CAS: 108-32-7 propylene carbonate	
fresh water	0.9 mg/l
sea water	0.09 mg/l
intermittent release (fresh water)	9 mg/l
STP	7,400 mg/l

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soil	0.81 mg/kg dw
intermittent release (sea water)	0.9 mg/l

Additional information: The lists valid during the making were used as basis.

Exposure controls
Appropriate engineering controls
No further data; see section 7.
Technical measures and the use of suitable working methods take priority over the use of personal protective equipment.
Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Do not eat or drink while working.
Avoid skin and eye contact with damaged batteries.
Avoid inhalation of spilled material.
Take off contaminated clothing and wash it before reuse.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.
Eye wash bottles and emergency showers should be provided in the immediate area near the workplace.
Respiratory protection: Not required when handling undamaged batteries.
Hand protection
Not required when handling undamaged batteries.
Wear protective gloves made of chloroprene or rubber if batteries are damaged.
Material of gloves
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.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
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/face protection
Not required when handling undamaged batteries.
Wear protective goggles if batteries are damaged.
Body protection: Not required when handling undamaged batteries.
Environmental exposure controls Do not allow to enter sewers/ surface or ground water.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties
General Information

Physical state	Solid
Colour:	Grey
Odour:	Odourless

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Odour threshold:	No information available.
Melting point/freezing point:	No information available.
Boiling point or initial boiling point and boiling range	No information available.
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	No information available.
Upper:	No information available.
Flash point:	Not applicable.
Decomposition temperature:	No information available.
pH	Not applicable.
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
water:	Insoluble.
Partition coefficient n-octanol/water (log value)	No information available.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density:	No information available.
Vapour density	Not applicable.
Particle characteristics	Not determined.

Other information

Appearance:	
Form:	Solid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	No information available.
Explosive properties:	No information available.
Change in condition	
Oxidising properties	No information available.
Evaporation rate	Not applicable.

Information with regard to physical hazard classes

Explosives	void
Flammable gases	void
Aerosols	void
Oxidising gases	void
Gases under pressure	void
Flammable liquids	void
Flammable solids	void
Self-reactive substances and mixtures	void
Pyrophoric liquids	void
Pyrophoric solids	void

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Self-heating substances and mixtures	void
Substances and mixtures, which emit flammable gases in contact with water	void
Oxidising liquids	void
Oxidising solids	void
Organic peroxides	void
Corrosive to metals	void
Desensitised explosives	void

SECTION 10: Stability and Reactivity

Reactivity No hazardous reactions known if stored and used as prescribed.
Chemical stability No decomposition if used and stored according to specifications.
Possibility of hazardous reactions No further relevant information available.
Conditions to avoid
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Do not expose the rechargeable Li-Ion battery to mechanical shock.
Do not disassemble, crush, short-circuit, or connect with incorrect polarity. Avoid mechanical or electrical abuse.
Do not allow to come into contact with water or acidic substances.
Incompatible materials:
If the battery leaks or is damaged, avoid contact with strong oxidising agents, mineral acids, strong alkalis and halogenated hydrocarbons.
Hazardous decomposition products:
No decomposition if used and stored according to specifications.
With open cells there is the possibility of the release of hydrofluoric acid and carbon monoxide.
Irritating or toxic gases.
Peroxides

SECTION 11: Toxicological Information

Information on hazard classes as defined in Regulation (EC) No 1272/2008
Inhalation: No probable route of exposure of the product itself. Inhalation of substances leaked from damaged batteries may irritate the respiratory tract and damage organs during prolonged or repeated exposure.

Skin contact: Contact with the undamaged battery does not present a hazard. Skin contact with damaged batteries may cause burns.

Eye contact: Contact with the undamaged battery does not constitute a hazard. Eye contact with spills from the damaged battery may cause burns.

Ingestion: No probable route of exposure of the product itself. Ingestion of spills may cause burns to the esophagus and stomach. Harmful if swallowed.

The product is declared as an article and is not subject to the CLP classification and labelling requirements.

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Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
CAS: 105-37-3 ethyl propionate		
Oral	LD50	3,500 mg/kg (Rabbit)
CAS: 7429-90-5 aluminium		
Oral	LD50	15,900 mg/kg (rat)
Inhalative	LC50/4h	> 888 mg/m³ (rat)
CAS: 7440-50-8 copper foil		
Oral	LD50	> 2,000 mg/kg (rat)
CAS: 7782-42-5 Graphite		
Oral	LD50	> 2,000 mg/kg (rat)
CAS: 96-49-1 ethylene carbonate		
Oral	LD50	10,000 mg/kg (rat)
CAS: 108-32-7 propylene carbonate		
Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (Rabbit)

Primary irritant effect:
Skin corrosion/irritation The electrolyte contained in the cell or battery causes skin burns.
Serious eye damage/irritation The electrolyte contained in the cell or battery causes serious eye damage.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
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
The electrolyte contains lithium hexafluorophosphate(1-).
The electrolyte contained in the cell or Battier damages the organs during prolonged or repeated exposure.
Aspiration hazard Based on available data, the classification criteria are not met.

Additional toxicological information:		
CAS: 108-32-7 propylene carbonate		
Oral	NOAEL	1,000 mg/kg bw/d (rat) OECD 414

Other information: There is no danger from the undamaged battery.

Repeated dose toxicity		
CAS: 108-32-7 propylene carbonate		
Oral	NOAEL	> 5,000 mg/kg bw/d (rat) OECD 408
Inhalative	NOAEC	100 ppm (rat) OECD 413

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Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: Ecological Information

Toxicity

Aquatic toxicity:	
CAS: 108-32-7 propylene carbonate	
EC50 (48 h)	1,000 mg/l (daphnia) (Daphnia magna)
LC50 (96 h)	1,000 mg/l (fish) (Cyprinus carpio)
NOEC (72 h)	900 mg/l (algae) (Desmodesmus subspicatus)
LC50 (72 h)	900 mg/l (algae) (Desmodesmus subspicatus)

Persistence and degradability No further relevant information available.
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.
Other adverse effects
Additional ecological information:
General notes:
Avoid release to the environment.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

Waste treatment methods
Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Dispose only through authorized companies in accordance with local regulations.

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

SECTION 14: Transport information

UN number or ID number
ADG, IMDG, IATA UN3480
UN proper shipping name
ADG 3480 LITHIUM ION BATTERIES

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IMDG, IATA LITHIUM ION BATTERIES

Transport hazard class(es)

ADG, IMDG, IATA

Class 9 Miscellaneous dangerous substances and articles.
Label 9A
Packing group
ADG, IMDG, IATA not regulated
Environmental hazards: Not applicable.
Special precautions for user Warning: Miscellaneous dangerous substances and articles.
Hazard identification number (Kemler code): -
EMS Number: F-A,S-I
Stowage Category A
Stowage Code SW19 For batteries transported in accordance with SP 376 or SP 377 Category C, unless transported on a short international voyage.
Maritime transport in bulk according to IMO instruments Not applicable.

Transport/Additional information:

ADG
Limited quantities (LQ) 0
Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity
Transport category 2
Tunnel restriction code E

IMDG
Limited quantities (LQ) 0
Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity
UN "Model Regulation": UN 3480 LITHIUM ION BATTERIES

SECTION 15: Regulatory information

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

Australian Inventory of Industrial Chemicals	
CAS: 105-37-3	ethyl propionate
CAS: 7429-90-5	aluminium foil

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CAS: 7440-50-8	copper foil
CAS: 7782-42-5	Graphite
CAS: 9011-17-0	Fluoropolymer (VDF/HFP)
CAS: 96-49-1	ethylene carbonate
CAS: 108-32-7	propylene carbonate
CAS: 21324-40-3	Lithium hexafluorophosphate(1-)
CAS: 9002-88-4	Polyethylene

Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

Australia: Priority Existing Chemicals

None of the ingredients is listed.

GHS label elements

According to REACH, the product is an article and therefore not subject to classification and labelling according to CLP Regulation (EC) No. 1272/2008.

There is no obligation to prepare safety data sheets for articles. This data sheet describes the safety requirements and is based on the safety data sheet according to REACH Regulation (EC) No. 1907/2006.

Hazard pictograms void

Signal word void

Hazard statements void

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

Contains no SVHC substances ≥ 0.1 %. (Status: 02/2025)

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.

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Training hints
Regular training of staff involved in the transport of dangerous goods (in accordance with Chapter 1.3 ADR).

Department issuing SDS:
UmEnA GmbH
http://umena.at
Email: office@umena.at

Abbreviations and acronyms:
ADR: Accord 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
IATA: International Air Transport Association
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
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flammable liquids – Category 2: Flammable liquids – Category 2
Acute toxicity - oral – Category 4: Acute toxicity – Category 4
Skin corrosion/irritation – Category 1A: Skin corrosion/irritation – Category 1A
Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2
Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3
Specific target organ toxicity (repeated exposure) – Category 1: Specific target organ toxicity (repeated exposure) – Category 1
Specific target organ toxicity (repeated exposure) – Category 2: Specific target organ toxicity (repeated exposure) – Category 2

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