Aluminium Brazing Flux Powder

according to 1907/2006/EC, Article 31

Part No: 7521



SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier • Trade name: Super 6 Aluminium Brazing Flux Powder · Article number: 7521 · 1.2 Relevant identified uses of the substance or mixture and uses advised against • Product category PC38 Welding and soldering products (with flux coatings or flux cores.), flux products · Application of the substance / the mixture Brazing flux · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Specialised Welding Products Ltd Tel: +44 (0)1420 588180 Unit 1, Farringdon Industrial Centre Farringdon, Nr Alton, Hants GU34 3DD Fax: +44 (0)1420 588184 www.specialisedwelding.co.uk · Information department: Email: sales@swp.uk.net · 1.4 Emergency telephone number: +44 (0)1420 588180 (office hours only) **SECTION 2: Hazards identification** 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS08 health hazard STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalative. GHS05 corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. GHS09 environment Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. GHS07 Acute Tox, 4 H302 Harmful if swallowed. STOT SE 3 H335 May cause respiratory irritation. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS05, GHS07, GHS08, GHS09 · Signal word Danger · Hazard-determining components of labelling: lithium chloride zinc chloride potassium hexafluoroaluminate ammonium fluoride · Hazard statements H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. GB Head Office

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H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalative. H411 Toxic to aquatic life with long lasting effects. · Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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/doctor. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · 2.3 Other hazards No further relevant information available.

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 7447-41-8	lithium chloride	10-25%
EINECS: 231-212-3	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 60304-36-1	potassium fluoroaluminates	10-25%
EINECS: 262-153-1	🕸 STOT RE 2, H373; 🐠 Eye Irrit. 2, H319	
CAS: 7646-85-7	zinc chloride	10-25%
EINECS: 231-592-0 Reg.nr.: 01-2119472431-44-xxxx	Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; STOT SE 3, H335	
CAS: 12125-01-8	ammonium fluoride	3-<10%
EINECS: 235-185-9	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331	

• 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

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- In case of unconsciousness place patient stably on their side for transportation.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing Do NOT induce vomiting, do NOT drink, seek medical advice
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.



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SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- \cdot Suitable extinguishing agents
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: Mount respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures



Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up: Use neutralising agent.
 Dispose of contaminated material as waste according to item 13.
- Ensure adequate ventilation. • **6.4 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

• 7.1 Precautions for safe handling Provide suction extractors if dust is formed. Thorough dedusting. Ensure good ventilation/extraction at the workplace. Prevent formation of dust.

- · Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.
- Advised preservation period under normal storage conditions: 6 months.
- \cdot 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 limit values that require monitoring at the workplace:

7646-85-7 zinc chloride (10-25%)

- WEL Short-term value: 2 mg/m³
 - Long-term value: 1 mg/m^3



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as F	rg-term value: 2.5 mg/m ³
DNEL	·
· DNELs	
	7 zinc chloride
Oral	DNEL 0.83 mg/kg bw/day (user) (long term & systemic effects)
Dermal	DNEL 8.3 mg/kg bw/day (user) (long term & systemic effects)
1110	8.3 mg/kg bw/day (worker) (long term & systemic effects)
Innalalive	DNEL 1.3 mg/m3 (user)
	1 mg/m3 (worker) (long term & systemic effects)
PNECs	
	7 zinc chloride
	0206 mg/l (Fresh water) (en Zn)
	1 mg/l (STP microorganismes station d'eaux usées)
	0061 mg/l (Sea water)
	7.8 mg/kg (sediment) (fresh water) diment sea water : 56.5mg/kg
	6.6 mg/kg (soil)
	d information: The lists that were valid during the creation were used as basis.
Use suitable Protection Protective The glove Due to a la the chemic	material has to be impermeable and resistant to the product/ the substance/ the preparation. lack of tests, no recommendation to the glove material can be given for the product/ the preparation cal mixture.
Selection degradation Glove mat	
and varies	tion of the suitable gloves does not only depend on the material, but also on further marks of qual s from manufacturer to manufacturer. As the product is a preparation of several substances, t e of the glove material can not be calculated in advance and has therefore to be checked prior to t
applicatio	
applicatio • Penetratio The exact observed.	on time of glove material the protocol of the protective gloves and has to be found out by the manufacturer of the protective gloves and has to
applicatio • Penetratio The exact observed. • Eye proteo	on time of glove material penetration time has to be found out by the manufacturer of the protective gloves and has to



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Colour:	White	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	undetermined	
Boiling point/Boiling range:	undetermined	
Flash point:	Not applicable	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Self igniting:	Product is not self igniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure at 20 °C:	1 hPa	
Density:	Not determined	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Slightly soluble	
Partition coefficient (n-octanol/wat	ter): Not determined.	
Viscosity:		
dynamic:	Not applicable.	
kinematic:	Not applicable.	
Organic solvents:	0.0 %	
Solids content:	100.0 %	
9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- \cdot 10.4 Conditions to avoid No further relevant information available.
- $\cdot \ 10.5 \ Incompatible \ materials: \ No \ further \ relevant \ information \ available.$
- 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity
- \cdot LD/LC50 values that are relevant for classification:
- 7646-85-7 zinc chloride
- Oral LD50 1100-1260 mg/kg (rat)



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	LC50 1260 mg/l (rat) (30min)
	potassium fluoroaluminates
	LD50 >2000 mg/kg (rat)
	ritant effect:
	sion/irritation Caustic effect on skin and mucous membranes. e damage/irritation Strong caustic effect.
	y or skin sensitisation No sensitising effects known.
Additional	toxicological information:
The produ	ct shows the following dangers according to the calculation method of the General E
Classificati Harmful	on Guidelines for Preparations as issued in the latest version:
Corrosive	
	g will lead to a strong caustic effect on mouth and throat and danger of perforation of esophage
and stomac	
SECTIO	N 12: Ecological information
12.1 Toxici Aauatic tox	ity sicity: No further relevant information available.
-	t Effective concentration Method Assessment
	zinc chloride
CE50	0.28 mg/l (algae) (72h, as Zn, selenastrum capricornutum)
	0.28 mg/l (algae) (72h, as Zh, selenashum capitornuum) 0.86 mg/l (daphnia) (as Zh, ceriodaphnia dubia)
L(E)C	21 mg/L (fish)
	ammonium fluoride
L(E)C	364 mg/L (fish) (96h)
	potassium fluoroaluminates
	22.9 mg/l (daphnia) (daphnia magna)
	tence and degradability No further relevant information available.
	cumulative potential No further relevant information available. ity in soil No further relevant information available.
Ecotoxical	
	oxic for fish
	ecological information:
General no	etes: eer class 3 (German Regulation) (Self-assessment): extremely hazardous for water.
	w product to reach ground water, water course or sewage system, even in small quantities.
Must not re	ach sewage water or drainage ditch undiluted or unneutralised.
	drinking water if even extremely small quantities leak into the ground.
	nous for fish and plankton in water bodies.
	quatic organisms ts of PBT and vPvB assessment
PBT: Not a	
vPvB: Not a	applicable.
12.6 Other	adverse effects No further relevant information available.
SECTIO	N 13: Disposal considerations
	treatment methods
15.1 waste Recommen	
Kecommen	



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· European waste catalogue

Must apply in all cases all local, regional and national laws and European directives. The end user must determine the specific code of waste for each industry using the appropriate European Code European Waste Catalogue. It is recommended that all details are specified by the responsible waste.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informati	on
· 14.1 UN-Number	
· ADR, IMDG, IATA	UN3077
· 14.2 UN proper shipping name	
·ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	SOLID, N.O.S. (ZINC CHLORIDE)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	SOLID, N.O.S. (ZINC CHLORIDE), MARINE POLLUTANT
·IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	SOLID, N.O.S. (ZINC CHLORIDE)
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· 14.4 Packing group	
· ADR, IMDG, IATA	111
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances
IA • II / /	zinc chloride
· Marine pollutant:	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	Warning: Miscellaneous dangerous substances and
	articles.
· Danger code (Kemler):	90
• EMS Number:	F-A,S-F
· Segregation groups	Acids
• 14.7 Transport in bulk according to Annex MARPOL73/78 and the IBC Code	x II of Not applicable.
• Transport/Additional information:	······
· ADR	
· ADK · Limited quantities (LQ)	5 kg
• Excepted quantities (EQ)	Code: El
Last prov quantum (EQ)	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
· Transport category	3
• Tunnel restriction code	E



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IMDG	
Limited quantities (LQ)	5 kg
Excepted quantities ($\widetilde{E}Q$)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC CHLORIDE), 9, III
SECTION 15: Regulatory info	rmation
15.1 Safety, health and environmente	al regulations/legislation specific for the substance or mixture
National regulations Technical instructions (air):	
Class Share in %	
III < 10	
Water hazard class: Water danger clo Customs Combined Nomenclature : .	ass 3 (Self-assessment): extremely hazardous for water.
	Chemical Safety Assessment has not been carried out.
	· · · · · · · · · · · · · · · · · · ·
	•
SECTION 16: Other informati	
	sent knowledge. However, this shall not constitute a guarantee for an
snecitic product teatures and shall no	
	t establish a legally valid contractual relationship.
Relevant phrases	t establish a legally valla contractual relationship.
Relevant phrases H301 Toxic if swallowed.	t establish a legally valla contractual relationship.
Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed.	t establish a legally valla contractual relationship.
Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and e	
Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation.	
Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation.	
Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled.	ye damage.
Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation H373 May cause damage to organs	ye damage. n.
Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation H373 May cause damage to organs Inhalative.	ye damage. n.
Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H317 Toxic if inhaled. H335 May cause respiratory irritation H373 May cause damage to organs Inhalative. H400 Very toxic to aquatic life.	ye damage. n. through prolonged or repeated exposure. Route of exposure: Ora
Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation H373 May cause damage to organs	ye damage. n. through prolonged or repeated exposure. Route of exposure: Ora
Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation H373 May cause damage to organs Inhalative. H400 Very toxic to aquatic life.	ye damage. n. through prolonged or repeated exposure. Route of exposure: Ora
Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H317 Toxic if inhaled. H335 May cause respiratory irritation H373 May cause damage to organs Inhalative. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with lo Abbreviations and acronyms:	ye damage. n. through prolonged or repeated exposure. Route of exposure: Ora
Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H317 Toxic if inhaled. H335 May cause respiratory irritation H373 May cause damage to organs Inhalative. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with lo Abbreviations and acronyms: Acute Tox. 3: Acute toxicity, Hazard Category	ye damage. n. through prolonged or repeated exposure. Route of exposure: Ora ong lasting effects. 3
Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H317 Toxic if inhaled. H335 May cause respiratory irritation H373 May cause damage to organs Inhalative. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with lo Abbreviations and acronyms: Acute Tox. 3: Acute toxicity, Hazard Category Skin Corr. 1B: Skin corrosion/irritation, Hazard	ye damage. n. through prolonged or repeated exposure. Route of exposure: Ora ong lasting effects. 3 4 rd Category 1B
 Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation H373 May cause damage to organs Inhalative. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with logand to the second second	ye damage. n. through prolonged or repeated exposure. Route of exposure: Ora ong lasting effects. 3 4 rd Category 1B Category 2
 Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H317 Toxic if inhaled. H335 May cause respiratory irritation H373 May cause damage to organs Inhalative. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with logan to the second sec	ye damage. n. through prolonged or repeated exposure. Route of exposure: Ora ong lasting effects. 3 4 d Category 1B Category 2 n, Hazard Category 1
 Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation H373 May cause damage to organs Inhalative. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with log Abbreviations and acronyms: Acute Tox. 3: Acute toxicity, Hazard Category Skin Corr. 1B: Skin corrosion/irritation, Hazard Skin Irrit. 2: Skin corrosion/irritation, Hazard Skin Irrit. 2: Skin corrosion/irritation, Hazard System Systems and Systems	ye damage. n. through prolonged or repeated exposure. Route of exposure: Ora ong lasting effects. 3 4 rd Category 1B Category 2 n, Hazard Category 1 , Hazard Category 2 igle exposure, Hazard Category 3
 Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H319 Toxic if inhaled. H335 May cause respiratory irritation H373 May cause damage to organs Inhalative. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with la Abbreviations and acronyms: Acute Tox. 3: Acute toxicity, Hazard Category Skin Corr. IB: Skin corrosion/irritation, Hazard Skin Irrit. 2: Skin corrosion/irritation, Hazard Skin Irrit. 2: Serious eye damage/eye irritation, FOT SE 3: Specific target organ toxicity - Sin STOT RE 2: Specific target organ toxicity - Re 	ye damage. n. through prolonged or repeated exposure. Route of exposure: Ora ong lasting effects. 3 4 rd Category 1B Category 2 I, Hazard Category 1 Hazard Category 1 Jazard Category 2 Igle exposure, Hazard Category 3 peated exposure, Hazard Category 2
 Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and ey H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation H373 May cause damage to organs Inhalative. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with log Abbreviations and acronyms: Acute Tox. 3: Acute toxicity, Hazard Category Acute Tox. 4: Acute toxicity, Hazard Category Skin Corr. IB: Skin corrosion/irritation, Hazard Skin Irrit. 2: Serious eye damage/eye irritation Eye Irrit. 2: Serious eye damage/eye irritation Eye Irrit. 2: Serious eye damage/eye irritation 	ye damage. n. through prolonged or repeated exposure. Route of exposure: Ora ong lasting effects. 3 4 rd Category 1B Category 2 h, Hazard Category 1 , Hazard Category 2 ngle exposure, Hazard Category 3 peated exposure, Hazard Category 3 peated exposure, Hazard Category 2 vironment - AcuteHazard, Category 1



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