

SAFETY DATA SHEET

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

1.1 Product identifier

Product Name: Epoxy Resin Grout (Part B Hardener) SG901

Contains reaction mass of trientine and trientine, mono- and di-propoxylated

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

Use of the substance/mixture: Hardner for Epoxy resin. Modified mercaptan containing inert fillers.

Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Simmons (Mouldings) Limited

Address of Supplier: Station Street West Business Park
Coventry
CV6 5BP
UK

Telephone: +44 (0) 24 7663 7028

Email: info@epoxyworktops.com

1.4 Emergency telephone number

Emergency Telephone: +44 (0) 24 7663 7028

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Skin Sens. 1B, H317; Aquatic Chronic 3, H412

Additional information: For full text of Hazard and EU Hazard statements: see section 16

2.2 Label elements



Signal Word: Warning

Hazard statements

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 - Avoid release to the environment.

P280 - Wear protective gloves

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P501 - Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations

Supplemental Hazard information (EU)

None

SECTION 2: Hazards identification (....)

2.3 Other hazards

Not a PBT according to REACH Annex XIII

Not a vPvB according to REACH Annex XIII

Does not contain any substances with endocrine disrupting properties

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Contains the following hazardous ingredients or ingredients with a workplace exposure limit:

Chemical Name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	SCL/ M-Factor/ ATE	REACH Registration Number	WEL/ OEL
Polymercaptan polymer	50 - 60%	-	-	Aquatic Chronic 3, H412	-	-	No
Aluminium hydroxide	30 - 40%	21645-51-2	244-492-7	Not classified (Substance with a workplace exposure limit)	-	01-2119529246- 39-XXXX	Yes
Reaction mass of trientine and trientine, mono-and di-propoxylated	3 - 5%	-	942-835-1	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	-	01-2120098765 -38-XXXX	No
Synthetic Amorphous Silica	< 5%	67762-90-7	-	Not classified (Substance with a workplace exposure limit)	-	01-2119379499 -16-XXXX	Yes

SECTION 4: First aid measures

4.1 Description of first aid measures

Rescuers should put on approved personal protective equipment (PPE) before administering first aid

Rescuers should take suitable precautions to avoid becoming casualties themselves

Contact with eyes

If substance has got into eyes, immediately wash out with plenty of water for several minutes

Irrigate eyes thoroughly whilst lifting eyelids

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water

Contaminated clothing should be laundered before reuse

If skin irritation or rash occurs: Get medical advice/attention.

Ingestion

Rinse mouth with water (do not swallow)

Give small amounts of water to drink

Do not induce vomiting unless directed by medical personnel.

SECTION 4: First aid measures (....)

Never give anything by mouth to an unconscious person
IF exposed or concerned: Get medical advice/attention.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Keep warm and at rest, in a half upright position. Loosen clothing

Apply artificial respiration only if patient is not breathing but do not use mouth to mouth resuscitation

IF exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes

May cause mild eye irritation

Contact with skin

May cause an allergic skin reaction.

Ingestion

May cause irritation of the throat

May cause gastro-intestinal irritation

May cause nausea/vomiting

Inhalation

May cause irritation of the throat

Exposure to decomposition products may cause irritation to the respiratory system

4.3 Indication of any immediate medical attention and special treatment needed

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Keep container(s) exposed to fire cool, by spraying with water

Gives off irritating or toxic fumes (or gases) in a fire.

Decomposition products may include oxides of sulphur and carbon

5.3 Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.

Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training

SECTION 6: Accidental release measures (....)

Only trained and authorised personnel should carry out emergency response

Personal precautions for non-emergency personnel: Avoid contact with skin and eyes; Do not touch or walk through spilt material; Do not breathe spray/mists; Remove contaminated clothing; Wash thoroughly after handling.

Personal precautions for emergency responders: Evacuate the area and keep personnel upwind; Shut off all ignition sources; Wear protective clothing as per section 8

6.2 Environmental precautions

Avoid release to the environment.

Do not allow to enter public sewers and watercourses

If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

Stop leak if safe to do so.

Seek expert advice for removal and disposal of all contaminated materials and wastes

Small spills

Wipe up spillage with damp absorbent cloth or towel

Place in appropriate container

Remove contaminated material to safe location for subsequent disposal

Wash affected area with plenty of water

Large spills

Contain the spillage using bunding

Absorb spillage in suitable inert material

Place in sealable container

Remove contaminated material to safe location for subsequent disposal

6.4 Reference to other sections

See section(s): 7, 8 & 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

Ensure adequate ventilation

Do not breathe spray/mists

Do not get in eyes, on skin, or on clothing.

Wear protective clothing as per section 8

Do not eat, drink or smoke when using this product.

Keep away from heat and sources of ignition

Ensure eyewash stations and safety showers are nearby

Wash thoroughly after handling.

Contaminated clothing should be laundered before reuse

7.2 Conditions for safe storage, including any incompatibilities

SECTION 7: Handling and storage (....)

Keep away from direct sunlight
Keep in a cool, dry, well ventilated place
Keep only in the original container
Keep container tightly closed.
Keep away from food, drink and animal feedingstuffs
Incompatible with acids, bases, oxidizing agents, epoxy resins

7.3 Specific end use(s)

Two part Epoxy resin curing agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace exposure - Measurement of exposure by inhalation to chemical agents - Strategy for testing compliance with occupational exposure limit values). European Standard EN 14042 (Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents). European Standard EN 482 (Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents).
Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Polymercaptan polymer

No exposure limits have been set for this substance

Aluminium hydroxide

WEL (long term) 2 mg/m³ (UK, as aluminium salts, soluble)
DNEL (inhalational) 10.76 mg/m³ Industry, Long Term, Systemic Effects
DNEL (inhalational) 10.76 mg/m³ Industry, Long Term, Local Effects
DNEL (oral) 4.74 mg/kg bw/day Consumer, Long Term, Systemic Effects

Reaction mass of trientine and trientine, mono- and di-propoxylated

DNEL (inhalational) 3.51 mg/m³ Industry, Long Term, Systemic Effects
DNEL (dermal) 2 mg/kg bw/day Industry, Long Term, Systemic Effects
PNEC aqua (freshwater) 4.1 µg/L
PNEC aqua (intermittent releases, freshwater) 41 µg/L
PNEC aqua (marine water) 410 ng/L
PNEC (STP) 4.3 mg/L
PNEC sediment (freshwater) 171 µg/kg
PNEC sediment (marine water) 17.1 µg/kg
PNEC terrestrial (soil) 3.17 µg/kg

Synthetic Amorphous Silica

WEL (long term) 6 mg/m³ (UK, inhalable dust)
WEL (long term) 2.4 mg/m³ (UK, respirable dust)
DNEL (inhalational) 4 mg/m³ (derived by Synthetic Amorphous Silica REACH Consortium)

8.2 Exposure controls

Selection and use of personal protective equipment should be based on a risk assessment of exposure potential

Engineering controls

SECTION 8: Exposure controls/personal protection (....)

Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines

Use local exhaust ventilation and/or enclosures.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

Where a reusable half mask respirator is required, use EN 140, with gas/vapour filter EN 14387 type AX, or EN 405; EN 1827

Where a full face mask respirator is required, use EN 136, with gas/vapour filter EN 14387 type AX

Eye/face protection

Wear safety glasses or goggles giving complete eye protection approved to standard EN 166

Skin protection

Wear suitable protective clothing

Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.

Glove material: Nitrile rubber (NBR)

Thickness: 6 (> 480 minutes)

Breakthrough time:

Thermal hazards

Not applicable

Hygiene measures

Do not eat, drink or smoke when using this product.

Use good personal hygiene practices

Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Ensure eyewash stations and safety showers are close to hand.

Environmental exposure controls

Avoid release to the environment.

Do not allow to penetrate the ground/soil.

Do not empty into drains



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid, paste

Colour: Various

Odour: Pungent odour; Smells of sulphur

Melting point/freezing point: No data available

Boiling point or initial boiling point and boiling range: > 200 °C

Flammability: Not flammable

Lower and upper explosion limit: Not applicable

Flash point: > 150 °C

Auto-ignition temperature: No data available

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SECTION 9: Physical and chemical properties (....)

Decomposition temperature:	No information available
pH:	No data available
Kinematic viscosity:	No data available
Solubility:	Insoluble in water
Partition coefficient n-octanol/water (log value):	Not determined
Vapour pressure:	No data available
Density and/or relative density:	1.6
Relative vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Volatile Organic Compounds (VOC): 3.586 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Exothermic reaction with epoxy resins

10.2 Chemical stability

Considered stable under normal conditions

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

Avoid extremes of temperature

10.5 Incompatible materials

Incompatible with acids, bases, oxidizing agents, epoxy resins

10.6 Hazardous decomposition products

Decomposition products may include oxides of sulphur and carbon

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity

Based on the available data, the classification criteria are not met

Substances

Chemical Name	LD ₅₀ (oral, rat)	LC ₅₀ (inhalation, rat)	LD ₅₀ (dermal, rabbit)
Polymercaptan polymer	> 3 000 mg/kg	No data available	No data available
Aluminium hydroxide	2 000 mg/kg	(4 h) 888 - 2 300 mg/m ³	No data available
Reaction mass of trientine and trientine, mono- and di-propoxylated	4 500 mg/kg	No data available	2 150 mg/kg (rat)
Synthetic Amorphous Silica	> 5 000 mg/kg	No data available	> 2 000 mg/kg

SECTION 11: Toxicological information (....)

Skin corrosion/irritation

Based on available data, the classification criteria are not met

Substances

Chemical Name	Irritation/corrosion
Polymercaptan polymer	Weak irritant. Primary irritant index (PI)= 0.2
Aluminium hydroxide	No adverse effect observed (not irritating)
Reaction mass of trientine and trientine, mono-and di-propoxylated	Adverse effect observed (irritating)
Synthetic Amorphous Silica	No adverse effect observed (not irritating)

Serious eye damage/irritation

Based on available data, the classification criteria are not met

Substances

Chemical Name	Irritation/corrosion
Polymercaptan polymer	No data available
Aluminium hydroxide	No adverse effect observed (not irritating)
Reaction mass of trientine and trientine, mono-and di-propoxylated	Adverse effect observed (irritating)
Synthetic Amorphous Silica	No adverse effect observed (not irritating)

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Classification based on calculation and concentration thresholds

Substances

Chemical Name	Skin sensitisation	Respiratory sensitisation
Polymercaptan polymer	No data available	No data available
Aluminium hydroxide	No adverse effect observed (not sensitising)	No adverse effect observed (not sensitising)
Reaction mass of trientine and trientine, mono-and di-propoxylated	Adverse effect observed (sensitising)	No study available
Synthetic Amorphous Silica	No data available	No data available

Germ cell mutagenicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	Toxicity - In Vitro	Toxicity - In Vivo
Polymercaptan polymer	No data available	No data available
Aluminium hydroxide	No data available	No data available
Reaction mass of trientine and trientine, mono-and di-propoxylated	No data available	No data available
Synthetic Amorphous Silica	No data available	No data available

Carcinogenicity

Based on available data, the classification criteria are not met

None of the components of the product/mixture present at levels greater than or equal to 0.1% are

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SECTION 11: Toxicological information (....)

listed by IARC as a carcinogen.

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Polymercaptan polymer	No data available	No data available	No data available
Aluminium hydroxide	No data available	No data available	No data available
Reaction mass of trientine and trientine, mono-and di-propoxylated	No data available	No data available	No data available
Synthetic Amorphous Silica	No data available	No data available	No data available

Reproductive toxicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Polymercaptan polymer	No data available	No data available	No data available
Aluminium hydroxide	No data available	No data available	No data available
Reaction mass of trientine and trientine, mono-and di-propoxylated	750 mg/kg bw/day (Effect on fertility) 750 mg/kg bw/day (Effect on developmental toxicity)	No data available	No data available
Synthetic Amorphous Silica	No data available	No data available	No data available

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met

Substances

Chemical Name	Route	Remarks
Polymercaptan polymer	Respiratory	No data available
Aluminium hydroxide	Respiratory	No adverse effect observed (not irritating)
Reaction mass of trientine and trientine, mono-and di-propoxylated	Respiratory	No data available
Synthetic Amorphous Silica	Respiratory	No data available

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Polymercaptan polymer	No data available	No data available	No data available
Aluminium hydroxide	200 - 3 225 mg/kg bw/day	3 - 70 mg/m³	No data available
Reaction mass of trientine and trientine, mono-and di-propoxylated	300 mg/kg bw/day	No data available	No data available
Synthetic Amorphous Silica	2 500 mg/kg bw/day	1 - 31 mg/m³	No data available

Aspiration hazard

Based on available data, the classification criteria are not met

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SECTION 11: Toxicological information (....)

Contact with eyes

May cause mild eye irritation

Contact with skin

May cause an allergic skin reaction.

Ingestion

May cause irritation of the throat

May cause gastro-intestinal irritation

May cause nausea/vomiting

Inhalation

May cause irritation of the throat

Exposure to decomposition products may cause irritation to the respiratory system

11.2 Information on other hazards

Does not contain any substances with endocrine disrupting properties

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Classification based on calculation and concentration thresholds

Substances

Chemical Name	LC ₅₀ (fish)	EC ₅₀ (aquatic invertebrates)	EC ₅₀ (aquatic algae)
Polymercaptan polymer	> 66.2 mg/L	> 57.1 mg/L	ErC50 algae > 34.1 mg/L
Aluminium hydroxide	(4 days) 570 - 218 644.1 µg/L	(48 h) 1.5 - 2.56 mg/L	(72 h) 16.9 - 1 799 µg/L
Reaction mass of trientine and trientine, mono-and di-propoxylated	(4 days) 4.1 mg/L	(48 h) 48 mg/L	(72 h) 4.1 mg/L
Synthetic Amorphous Silica	(4 days) 1.033 - 5 g/L	(48 h) 5 g/L	(72 h) 173.1 - 500 mg/L

12.2 Persistence and degradability

Not readily biodegradable

Substances

Chemical Name	Biodegradation
Polymercaptan polymer	Not readily biodegradable
Aluminium hydroxide	Not applicable, inorganic
Reaction mass of trientine and trientine, mono-and di-propoxylated	Under test conditions no biodegradation observed (100%)
Synthetic Amorphous Silica	Not applicable, inorganic

12.3 Bioaccumulative potential

Not determined

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SECTION 12: Ecological information (....)

Substances

Chemical Name	Bioconcentration Factor (BCF)	Log Kow
Polymercaptan polymer	No data available	0.03 – 5.6 @ 25°C
Aluminium hydroxide	No bioaccumulation potential	Not applicable, inorganic
Reaction mass of trientine and trientine, mono-and di-propoxylated	Low potential for bioaccumulation (Log Pow < 3)	(Log Pow) -2.42
Synthetic Amorphous Silica	Bioaccumulation is not expected	Not applicable, inorganic

12.4 Mobility in soil

Insoluble in water

Substances

Chemical Name	Adsorption/desorption
Polymercaptan polymer	Insoluble in water
Aluminium hydroxide	Low potential for adsorption
Reaction mass of trientine and trientine, mono-and di-propoxylated	Koc 380 @ 20°C
Synthetic Amorphous Silica	Insoluble in water

12.5 Results of PBT and vPvB assessment

Not a PBT according to REACH Annex XIII

Not a vPvB according to REACH Annex XIII

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

This material and/or its container must be disposed of as hazardous waste

Disposal should be in accordance with local, state or national legislation

Do not discharge into drains or the environment, dispose to an authorised waste collection point

Do not reuse empty containers without commercial cleaning or reconditioning

13.2 Classification

The waste must be identified according to the List of Wastes (2000/532/EC)

Hazardous Property Code(s): HP 14 Ecotoxic

SECTION 14: Transport information

14.1 UN number or ID number

SECTION 14: Transport information (....)

UN No.: Not applicable

14.2 UN proper shipping name

Proper Shipping Name: Not applicable

14.3 Transport hazard class(es)

Hazard Class: Not applicable

14.4 Packing group

Packing Group: Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

14.8 Road/Rail (ADR/RID)

ADR UN No.: Not applicable

Proper Shipping Name: Not applicable

ADR Hazard Class: Not applicable

ADR Packing Group: Not applicable

Tunnel Code: Not applicable

14.9 Sea (IMDG)

IMDG UN No.: Not applicable

Proper Shipping Name: Not applicable

IMDG Hazard Class: Not applicable

IMDG Packing Group.: Not applicable

14.10 Air (ICAO/IATA)

ICAO UN No.: Not applicable

Proper Shipping Name: Not applicable

ICAO Hazard Class: Not applicable

ICAO Packing Group: Not applicable

SECTION 15: Regulatory information

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

This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 (as amended by Regulation (EU) 2020/878) and UK REACH

The GB Classification, Labelling and Packaging Regulation (GB CLP) applies in Great Britain

Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe

The Hazardous Waste (England and Wales) Regulations 2005 apply in the UK

15.2 Chemical safety assessment

No information available

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Sources of data: Information from published literature and supplier safety data sheets

Revision No. 3.0.0. Revised January 2021.

Changes made: Revisions to all sections to conform to Regulation (EU) 2020/878 and UK REACH

Revision No. 4.0.0. Revised May 2024.

Changes made: Revised and reissued due to change in formulation and hazards.

Training advice

Workers must be informed of the presence of hazardous ingredients and trained in the proper use and handling of this product as required under applicable regulations

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Sens. 1B, H317: Classification based on calculation and concentration thresholds

Aquatic Chronic 3, H412: Classification based on calculation and concentration thresholds

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects

H412: Harmful to aquatic life with long lasting effects

Acronyms

ATE: Acute Toxicity Estimate

CAS: Chemical Abstracts Service

DNEL: Derived No-Effect Level

EC: European Community

EC₅₀: Effective Concentration, 50%

GHS: Globally Harmonised System

IARC: International Agency for Research on Cancer

IOELV: Indicative Occupational Exposure Limit Value

LC₅₀: Lethal Concentration, 50%

LD₅₀: Lethal Dose, 50%

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted No-Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

SECTION 16: Other information (....)

SCL: Specific Concentration Limit

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

WEL: Workplace Exposure Limit