




Agritech Bioscience (Pty) Ltd. t/a Carabiner

# Safety Data Sheet

## MAFIA

Reg. No: L 9724 (Act 36 of 1947)

<b>1) Identification of the substance or mixture and of the supplier:</b>	
1.1 Product identifier:	Mafia
1.2 Other means of identification:	Picloram 80 / Fluroxypyr 80 g/L ME Crop protection product, herbicide.
Chemical name:	potassium 4-amino-3,5,6-trichloro-2-pyridinecarboxylate 4-amino-3,5-dichloro-6-fluoro-2-pyridyloxyacetic acid
1.3 Recommended use of the chemical:	Herbicide
Restrictions on use:	Agriculture: Herbicide
UN Number:	3082
1.4 Distributed by:	AGRITECH BIOSCIENCE (PTY) T/A CARABINER P O BOX 1224 ISANDO, 1600 TEL: 067384430 / 0724572828 <a href="http://www.carabiner.co.za">www.carabiner.co.za</a>
1.5 Emergency Number:	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 TYGERBERG: 021 931 6129 RED CROSS: 021 689 5227 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946.
<b>2) Hazard(s) Identification:</b>	
2.1 GHS Classification of the substance or mixture:	<b>Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]</b> For classifications not written out in full in this section, the full text can be found in section 16.  <b>Flammable Liquid Cat. 3</b> <b>Skin irritation Cat. 2</b> <b>Eye dam. Cat. 1</b> <b>Repr Tox Cat. 1B</b> <b>Aquatic Acute Cat. 2</b> <b>Aquatic Chronic Cat. 2</b>

2.2 GHS Label elements:	<p><b>Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]</b></p> <p><b>Pictograms</b></p>  <p>Signal word: Danger</p> <p><b>Hazard statement:</b></p> <p>H226 - Flammable liquid and vapour  H315 - Causes skin irritation  H318 - Causes serious eye damage  H360 - May damage fertility or the unborn child  H410 - Very toxic to aquatic life with long lasting effects</p> <p><b>Precautionary Statements:</b></p> <p><b>General:</b>  P101 - If medical advice is needed, have product container or label at hand.  P102 - Keep out of reach of children.  P103 - Read carefully and follow all instruction.</p> <p><b>Prevention:</b>  P203 - Obtain, read and follow all safety instructions before use.  P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  P233 - Keep container tightly closed.  P240 - Ground/bond container and receiving equipment.  P241 - Use explosion-proof electrical/ventilating/lighting equipment.  P242 - Use only non-sparking tools.  P243 - Take action to prevent static discharges.  P264 + P265 - Wash hands thoroughly after handling. Do not touch eyes.  P273 - Avoid release to the environment.  P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p> <p><b>Response:</b>  P302+352 - IF ON SKIN - Wash with plenty of water and soap.  P303+361+353 - IF ON SKIN (or hair) - Take off immediately all contaminated clothing. Rinse skin with water/shower.  P305 + P354 + P338 - IF IN EYES - Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P318 - If exposed or concerned, get medical advice.  P321 - Specific treatment (see First Aid on this label).  P332+317 - If skin irritation occurs - Get medical help.  P362+364 - Take off contaminated clothing and wash it before reuse.  P370+378 - In case of fire - Use suitable extinguish media to extinguish.  P391 - Collect spillage.  P405 - Store locked up.</p> <p><b>Storage:</b>  P403+233 - Store in a well-ventilated place. Keep container tightly closed.  P403+P235 - Store in a well ventilated place. Keep cool.  P405 - Store locked up.</p> <p><b>Disposal:</b>  P501 - Dispose of contents/container in accordance with local / regional / national / international regulations.</p>
2.3 Other hazards:	No other hazards known
<b>3) Composition/Information on ingredients:</b>	
3.1 Substances	Not applicable
3.2 Mixtures	
Chemical nature:	Soluble Concentrate Preparation based on Picloram salt / Fluroxypyr methyl heptyl ester

**Hazardous components according to Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]**

Chemical name	Concentration of hazardous ingredient in composition	CAS No.	EC No.	Classification according to Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]
Fluroxypyr (As methyl heptyl ester)	≥10.9%	81406-37-3	279-752-9	Aquatic Acute 1 Aquatic Chronic 1
Picloram as (as TIPA salt)	≥13.6%	1918-02-1	2017-636-1	Eye Irrit. 2
Monoethylene glycol	≤ 5%	107-21-1	203-473-3	Acute Tox. 4.
Cyclohexanone	< 9.4%	108-94-1	203-631-1	Flam. Liq. 3 Acute Tox. 4
1-methyl-2-pyrrolidone	< 14%	872-50-4	212-828-1	Repr. 1B STOT SE 3 Skin Irrit. 2 Eye Irrit. 2
2-methylpropan-1-oll	≤ 3.4	78-83-1	201-148-0	Flam. Liq. 3 STOT SE 3 STOT SE 3 Skin Irrit. 2 Eye Dam. 1
Other non-hazardous ingredients	To balance	-	-	Not classified

For the full text of the H-Statements mentioned in this Section, see Section 16.

**4) First Aid Measures:**

4.1 Description of first aid measures

General Information:	Remove patient from exposed area. Never give fluids or induce vomiting if patient is unconscious or is having convulsions.
Inhalation:	Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. <b>Seek medical assistance immediately.</b>
Skin contact:	Immediately flush body and clothes with large amounts of water and soap. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. Persons providing first aid must wear gloves to avoid self-contamination. Seek medical assistance if irritation occurs.
Eye contact:	Flush eyes with plenty of clean, room temperature water for at least 15 minutes holding eyelids open. Remove contact lenses. Call a doctor for treatment advice. <b>Obtain medical attention immediately if irritation persists.</b> If symptoms (e.g., redness, irritation, pain etc) persist after 15 minutes of irrigation, refer the patient to an ophthalmologist for an eye examination.
Ingestion:	Never give anything by mouth to an unconscious person or to a person having convulsions. Do not induce vomiting. For advice, contact the National Poisons Centre. <b>Seek medical assistance immediately.</b> The decision of whether to induce vomiting or not must be made by an attending physician.
4.2 Indication of any immediate medical attention and special treatment needed:	No specific antidote known. Treat symptomatically and supportively. Skin contact may aggravate pre-existing dermatitis
4.3 Most important symptoms and effects, both acute and delayed:	No available data

**5) Fire-Fighting Measures:**

5.1 Extinguishing media

Suitable extinguishing media:	Alcohol-resistant foam, carbon dioxide, Dry chemical. Do not use high volume water jet, due to contamination risk.
5.2 Special hazards arising from the substance or mixture:	During a fire, smoke may contain the original material as well as unidentified toxic and/or irritating compounds.
5.3 Advice for firefighters	
Special protective equipment:	Full protective clothing and self-contained breathing apparatus and turnout gear.

Further information:	<p>Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire.</p> <p>Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways.</p> <p>During a fire, smoke may contain the original material as well as unidentified toxic and/or irritating compounds.</p>			
<b>6) Accidental Release Measures:</b>				
6.1 Personal precautions, protective equipment, and emergency procedures	<p>Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink, or smoke. Wash contaminated clothing before re-use. Prevent skin contact.</p>			
6.2 Environmental precautions:	<p>Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers, or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.</p>			
6.3 Methods and materials for containment and cleaning up				
Methods for cleaning up:	<p>Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with sand or other non-combustible absorbent material, remove with an approved scoop or vacuum and place into specially marked waste containers for later disposal. Wash area with water and detergent and absorb with further inert material. For large spills, barricade the area and consult the manufacturer. Heavily contaminated soil layers have to be dug out down to clean soil. If spill does enter waterways contact the local authority. Spilled product cannot be re-used and must be disposed of in a chemical waste disposal facility. To decontaminate the spill area, tools and equipment, wash with a suitable solution (i.e., organic solvent, detergent bleach, or caustic). If containers cannot be recycled, they should be disposed of together with the waste chemical.</p> <p>Used absorbent material and washings should be stored in labelled, sealable containers until these can be disposed of according to local regulations. Open burning or dumping of this material is prohibited.</p>			
6.4 Reference to other sections	<p>Information regarding safe handling, see section 7.  Information regarding personal protective equipment, see section 8.  Information regarding waste disposal, see section 13.</p>			
<b>7) Handling &amp; Storage:</b>				
7.1 Precautions for safe handling:	<p>Avoid skin and eye contact and inhalation of spray mist. Use good personal hygiene. Do not consume or store food in the wok area. Wash hands and exposed skin before eating, drinking, smoking, or applying cosmetics after work. Avoid skin contact. Remove any contaminated clothing immediately and wash the skin area with plenty of water. This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</p>			
7.2 Conditions for safe storage, including any incompatibilities:	<p>Store in compliance with local regulations. Store in original container tightly closed and in a locked, dry, cool, well-ventilated area away from foodstuffs, fertilisers, and seeds. Keep away from children or uninformed persons. Protect from excessive heat and cold. Do not store near food, drink, animal feedstuffs, pharmaceuticals, cosmetics, or fertilisers.</p>			
7.3 Specific end use(s)	<p>No available data</p>			
<b>8) Exposure Controls/ Personal Protection:</b>				
8.1 Occupational exposure limits:	<b>Component</b>	<b>Value type (Form of exposure)</b>	<b>Control parameters / permissible concentration</b>	<b>Basis</b>
	Picloram	TLV	10 mg/m <sup>3</sup> (10 ppm)	ACGIH

		PEL	15 mg/m3	OSHA PEL
		Respirable	5 mg/m3	OSHA PEL
	<p>These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.</p>			
8.2 Engineering controls:	<p>Comply with occupational safety, environmental, fire and other applicable regulations.</p> <p>It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are professionally designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.</p>			
8.3 Exposure controls				
Respiratory protection:	<p>When airborne exposure guidelines and / or comfort levels may be exceeded, use an approved air-purifying respirator. For emergency conditions: Use an approved positive-pressure self-contained breathing apparatus.</p>			
Eye protection:	<p>The use of chemically resistant safety goggles is recommended.</p>			
Hand protection:	<p>Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance.</p>			
Other protective equipment:	<p>For brief contact: Clean body-covering. Emergency conditions: Protective clothing impervious to this material. The selection of specific items will depend on the operation. Consult supplier to confirm that the equipment is suitable</p> <p>The employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this product.</p>			
General Safety & Hygiene measures:	<p>Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.</p>			
<b>9) Physical &amp; Chemical Properties:</b>				
9.1 Information of basic physical and chemical properties				
Appearance (physical state, colour etc)	Liquid, tan			
Odour:	Characteristic			
Odour threshold:	No data available			
pH:	7 – 8.5			
Melting point/freezing point:	No data available			
Initial boiling point and boiling range:	No data available			
Flash point:	Insufficient data, classification not possible. Expected to be > 93°C			
Evaporation rate:	No data available			
Flammability:	Flammable Liquid 3			
Upper/lower flammability or explosive limits:	No data available			
Vapour pressure:	No data available			
Vapour density:	No data available			
Relative density:	Approximately 1.16			
Solubility (ies):	Soluble in water			
Partition coefficient: n-octanol/water	No data available			
Auto-ignition temperature:	No data available			
Decomposition temperature:	No data available			
Kinematic viscosity:	No data available			
<b>10) Stability &amp; Reactivity</b>				
10.1 Reactivity:	Stable under normal use and standard conditions. Stable for 24 months.			
Chemical stability:	<p>When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Avoid temperature extremes.</p> <p>Avoid strong basic, acidic, or oxidising materials</p>			

Possibility of hazardous reactions:	None known under normal conditions of storage and use.
10.2 Conditions to avoid:	Avoid temperature extremes. Keep away from heat and protect from direct sunlight.
10.3 Incompatible materials:	Strong basic, acidic, or oxidising materials
10.4 Hazardous decomposition products	No decomposition if stored and handled as indicated.
<b>11) Toxicological Information:</b>	
11.1 Information on toxicological effect	
Acute oral toxicity [LD <sub>50</sub> mg/kg]:	GHS: Not classified
Acute inhalation toxicity [LC <sub>50</sub> mg/L]:	GHS: Not classified
Acute dermal toxicity [LD <sub>50</sub> mg/kg]:	GHS: Not classified
Aspiration hazard:	GHS: Not classified
Respiratory irritation:	GHS: Not classified
Skin irritation/corrosion:	GHS: Skin irritation Cat. 2
Serious eye damage/irritation:	GHS: Eye dam. Cat. 1
Respiratory/skin sensitisation:	GHS: Not classified
Germ cell mutagenicity:	GHS: Not classified
Carcinogenicity:	GHS: Not classified
Teratogenicity	GHS: Not classified
Reproductive toxicity:	GHS: Repr Tox Cat. 1B
Specific organ toxicity:	GHS: Not classified
Narcotic effects:	GHS: Not classified
Summary:	Causes skin irritation Causes serious eye damage May damage fertility or the unborn child
<b>12) Ecological Information:</b>	
12.1 Toxicity	
Toxicity to fish:	GHS: Aquatic Acute Cat. 2 GHS: Aquatic Chronic Cat. 2
Toxicity for daphnia [EC <sub>50</sub> mg/L] (48 h, flow-through):	GHS: Not classified
Toxicity to algae [ErC <sub>50</sub> mg/L] (5 d, static):	GHS: Not classified
Toxicity for birds [LD <sub>50</sub> mg/kg]	No data available for the formulated product
Toxicity for worms [LC <sub>50</sub> mg/kg]	No data available for the formulated product
Toxicity bees [LD <sub>50</sub> µg/bee] (48 h)	No data available for the formulated product
12.2 Persistence and degradability:	<p><b>Information based on Picloram active:</b> In mammals, following oral administration, picloram is rapidly excreted in an unchanged form.</p> <p>On plant surfaces, photodecomposition occurs, possibly with cleavage of the pyridine ring. For reviews of picloram in the environment, see M. Mayes &amp; G. R. Oliver, An Aquatic Hazard Assessment: Picloram, Aquatic Toxicology and Hazard Assessment: Eight Symposium, ASTM STP 891, in R. C. Bahner &amp; D. J. Hasen, eds., American Society for Testing and Materials, Philadelphia, 1985, pp. 253–269, and Picloram: the Effects of its Use as a Herbicide on Environmental Quality, National Research Council of Canada, Ottawa, Canada, K1A 0R6, Publication No. NRCC 13684 of the Environmental Secretariat, 1974, 128 pp.</p> <p>Quickly degraded by light, in clear water or on plant surfaces. Degraded moderately slowly to slowly by soil micro-organisms, typical field DT<sub>50</sub> 30–90 d. Rate of degradation in soil strongly proportional to application rate. Aqueous photodegradation DT<sub>50</sub> &lt;3 d.</p> <p><b>Information based on Fluroxypyr active:</b> In soil, fluroxypyr is rapidly degraded by micro-organisms in aerobic conditions to 4-amino-3,5-dichloro-6-fluoropyridin-2-ol, 4-amino-3,5-dichloro-6-fluoro-2-methoxypyridine, and CO<sub>2</sub>. DT<sub>50</sub> in laboratory soil studies 5–9 d (c. 23 °C). Lysimeter and field studies demonstrate there is no evidence of any significant leaching.</p> <p>In laboratory soils, the ester is rapidly converted to fluroxypyr in all soil types, with DT<sub>50</sub> &lt;7 d. In soil/water slurries, DT<sub>50</sub> 2–5 h (pH 6–7, 22–24 °C). Total DT<sub>50</sub> for fluroxypyr-meptyl and fluroxypyr acid: soil, aerobic 23 d; aquatic, aerobic 14 d; aquatic, anaerobic 8 d; field dissipation 36.3 d.</p>

12.3 Bioaccumulative potential:	Picloram: Bio-concentration potential is low (BCF<100 or log Pow <3) Fluroxypyr-meptyl: Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Partition coefficient: n-octanol/water(log Pow): 5,04 Measured Bioconcentration factor (BCF): 26 <i>Oncorhynchus mykiss</i> (rainbow trout) Measured.
12.4 Mobility in soil	<b>Picloram:</b> Quickly degraded by light, in clear water or on plant surfaces. Degraded moderately slowly to slowly by soil micro-organisms, typical field DT50 30–90 d. Rate of degradation in soil strongly proportional to application rate. Aqueous photodegradation DT50 <3 d.  <b>Fluroxypyr-meptyl</b> Soil Fluroxypyr methyl heptyl ester is almost completely degraded to fluroxypyr acid within one week in soil and water. Fluroxypyr acid is primarily degraded by microbial action. It has a half-life of about 3 to 6 days in soil under aerobic conditions depending on soil type and climatic conditions. In sterile water, fluroxypyr acid has a half-life of 185 to 265 days depending on the pH. Fluroxypyr is not expected to move into ground water. Residues typically remain in the top 10 centimetres of a soil profile. If used according to the label directions, the product will not be harmful to the environment.
12.5 Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects	This substance / mixture contains no ingredients that are on the Montreal Protocol list of substances that deplete the ozone layer.
<b>13) Disposal Considerations:</b>	
13.1 Appropriate disposal methods:	In accordance with local and national regulations. This product and its container must be disposed of by a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations. Do not dispose into, or allow contact with, municipal sewerage systems or open water bodies. Do not bury.
Contaminated packaging:	Contaminated packaging should be emptied as far as possible. Triple or pressure rinse containers before disposal. If recycling, close container and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and take to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal.
13.2 Special precautions during disposal:	Waste resulting from the use of this product cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and take to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal. If on-site container disposal is necessary, triple rinse empty container with water, add rinsate to the spray tank. Puncture top, sides and bottom, crush, and store appropriately until it can be taken to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal. Empty containers and product should not be burnt.
<b>14) Transportation Information:</b>	
Rail/road (RID/ADR) 14.1 UN Number 14.2 Proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environm. Hazardous Mark	3082 Environmentally hazardous substance, liquid, n.o.s. (fluroxypyr, picloram) 9 III Environmentally hazardous

Sea (IMDG code): 14.1 UN Number 14.2 Proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Marine pollutant	3082 Environmentally hazardous substance, liquid, n.o.s. (fluroxyppy, picloram) 9 III Environmentally hazardous
Air (ICAO/IATA): 14.1 UN Number 14.2 Proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environm. Hazardous Mark	3082 Environmentally hazardous substance, liquid, n.o.s. (fluroxyppy, picloram) 9 III Environmentally hazardous
14.6 Special precautions for user	See sections 6 to 8 of this Safety Data Sheet
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable.
<b>15) Regulatory Information:</b>	
<b>15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture.</b>	
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.	
<b>15.2 Chemical Safety Assessment</b>	
For this product, a chemical safety assessment was not carried out.	
Approved handlers:	This product must be under the care of an approved handler at all times. Records of use must be kept.
Tracking:	Must be tracked.
<b>16) Other information:</b>	
For proper and safe use of this product, please refer to the approval conditions on the product label.	
<b>Full text of H-Statements referred to under sections 2 and 3.</b>	
H226 - Flammable liquid and vapour H315 - Causes skin irritation H318 - Causes serious eye damage H360 - May damage fertility or the unborn child H410 - Very toxic to aquatic life with long lasting effects	
<b>Abbreviations and acronyms</b>	
ACGIH American Conference of Governmental Industrial Hygienists. ADR European Agreement concerning the International Carriage of Dangerous Goods by Road CAS-Nr. Chemical Abstracts Service number CLP Classification, Labelling and Packaging EC-No. European community number ECx Effective concentration to x % EEC European Union regulation EU European Union ErC50 Concentration of the test substance which results in a 50 percent reduction in growth rate. GHS Globally Harmonized System IARC International Agency for Research on Cancer IATA International Air Transport Association IBC International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods LCx Lethal concentration to x % LDx Lethal dose to x % MARPOL: International Convention for the prevention of marine pollution from ships NTP U.S National Toxicology Program OSHA American Occupational Safety and Health Administration. PBT Persistence, Bioaccumulation and Toxic PEL Permissible Exposure Limit vPvB Very persistent and very bioaccumulative RID Regulations concerning the International Carriage of Dangerous Goods by Rail SK 8hr TWA Skin 8-hour Time weighted average STEL Short term exposure limit STOT SE Specific target organ toxicity single exposure. STOT RE Specific target organ toxicity repeated exposure. TLV Threshold Limit Value TWA Time weighted average	



UN United Nations

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