SAFETY DATA SHEET - FAZOR
This safety data sheet does not form part of the label approved under the Plant Protection Product Regulations 1995
Following the instructions on the pesticide label for the specified uses should

		the product is used	salely and enicacio		
Trade name : Fazor 12. Relevant identified uses of the substance or mixture and uses advised against Use of the Substance/Mixture : Plant growth regulator 1.3. Details of the supplier of the safety data sheet Company : Chemtura Manufacturing UK Limited Tenax Road, Trafford Park, Manches United Kingdom, M17 1WT. Customer Service : +44 161 875 3800 Prepared by msdsrequest@chemtura.com 1.4 Emergency telephone number Further information for the safety data sheet : msdsrequest@chemtura.com 1.4 Emergency telephone number : +44 (0) 1235 239 670 (NCEC) For additional emergency telephone numbers see section 16 of the Safety Data Sheet. 4.4 Hazard Sidentification 2.1 Classification of the substance or mixture Classification (EC) No 1272/2008) Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic organisms, may cause long-term adverse effects the aquatic environment. 2.2 Label elements Labelling (REGULATION (EC) No 1272/2008) Hazard statements: H411 Toxic to aquatic life with long lasting effects. Precautionary statements: P273 Avoid release to the environment. Response: P391 Collect spillage. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant Supplemental Hazard Statements : Supplemental H	 Identification of the substance/ 1.1 Product identifier 	mixture and of the	company/under	taking	
1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the Substance/Mixture : Plant growth regulator 1.3 Details of the supplier of the safety data sheet Company : Chemtura Manufacturing UK Limited Tenax Road, Trafford Park, Manchess United Kingdom, M17 1WT. Customer Service : +44 161 875 3800 Prepared by msdsrequest@chemtura.com Further information for the safety data sheet : msdsrequest@chemtura.com 1.4 Emergency telephone number End 44 (0) 1235 239 670 (NCEC) For additional emergency telephone numbers see section 16 of the Safety Data Sheet. 4. Hazard Sidentification 2.1 1.4 Emergency telephone numbers : +44 (0) 1235 239 670 (NCEC) For additional emergency telephone numbers see section 16 of the Safety Data Sheet. 4. Hazard Sidentification 2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008) Chronic aquatic toxicity, Category 2. Halt1: Toxic to aquatic life with long lasting effects. Classification (REGULATION (EC) No 1272/2008) Hazard statements: H411 Toxic to aquatic life with long lasting effects. Precautionary statements: P273 Avoid release to the environment. Response: P391 Prevention: P273 Avoid release to the environment. Response: P391 Dispose of contents/ container to an approved	Trade name :	Fazor			
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1.3 Details of the supplier of the safety data sheet Company: Chemtura Manufacturing UK Limited Tenax Road, Trafford Park, Manches United Kingdom, MI7 1WT. Customer Service : +44 161 875 3800 Prepared by msdsrequest@chemtura.com 1.4 Emergency telephone number : +44 (0) 1235 239 670 (NCEC) For additional emergency telephone numbers see section 16 of the Safety Data Sheet. . Hazards identification 2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008) Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects. Classification (REGULATION (EC) No 1272/2008) For aduatic onginisms, may cause long-term adverse effects the aquatic environment. 2.2 Label elements R51/53: Toxic to aquatic life with long lasting effects. Labed statements: H411 Toxic to aquatic life with long lasting effects. Precationary statements: P273 Avoid release to the environment. Response: P391 Collect spillage. Pisposal: P501 Dispose of contents/ container to an approved waste disposal plar Supplemental Hazard Statements : 2.3 Other hazards Registration number No information available. Classification (REGULATION (EC) No 1272/2008) Chemical Name Resistration number Supplemental Hazard Statements : EUH401 To avoid risks to human	Use of the Substance/Mixture :	Plant growth reg	gulator	2	
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Prepared by msdsrequest@chemtura.comFurther information for the safety data sheet : msdsrequest@chemtura.com1.4 Emergency telephone numberEmergency telephone number:+44 (0) 1235 239 670 (NCEC)For additional emergency telephone numbers see section 16 of the Safety Data Sheet. Hazards identification 2.1 Classification (REGULATION (EC) No 1272/2008)Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic organisms, may cause long-term adverse effectsClassification (67/548/EEC, 1999/45/EC)Dangerous for the environmentR51/53: Toxic to aquatic organisms, may cause long-term adverse effects the aquatic environment.Label elementsLabelling (REGULATION (EC) No 1272/2008)Hazard statements:P173 Avoid release to the environment.Response:P391 Collect spillage.Disposal:P501 Dispose of contents/ container to an approved waste disposal plarSupplemental Hazard Statements :EUH401 To avoid risks to human health and the environment, comply with the instructions for use.2.3 Other hazardsNo information available.Composition/information available.Composition/information available.Chemical NameRegistration (67/548/EEC)REGULATION (EC) No To avoid risks to human health </td <td>Company :</td> <td>Chemtura Manu United Kingdom</br></td> <td>facturing UK Limit n, M17 1WT. Cust</td> <td>ed Tenax Road, Trafford F tomer Service : +44 161 8</td> <td>Park, Manchest 75 3800</td>	Company :	Chemtura Manu 	facturing UK Limit n, M17 1WT. Cust	ed Tenax Road, Trafford F tomer Service : +44 161 8	Park, Manchest 75 3800
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1,2-dihydropyridazine-3,6- 51542-52-0 80.4 dione, potassium salt 257-261-0	Benzenesulfonic acid, mono- C10-16-alkyl derivs., sodium salts		D 4 1	Eve Dam 1. H318	
dione, potassium salt 257-261-0	Benzenesulfonic acid, mono- C10-16-alkyl derivs., sodium salts		K4 I	Lyc Dunn. 1, horo	
	Benzenesulfonic acid, mono- C10-16-alkyl derivs., sodium salts 1,2-dihydropyridazine-3,6-	51542-52-0	K41	Lyc Dunit 1, 11510	80.4

4.1 Description of first aid measures If inhaled Remove to fresh air. Obtain medical attention. Remove contaminated clothing and shoes. In case of skin contact : Wash off with warm water and soap. If symptoms persist, call a physician. In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician. Do NOT induce vomiting. Rinse mouth with water. Obtain medical attention. If swallowed : 4.2 Most important symptoms and effects, both acute and delayed Symptoms : No information available. Risks No information available. 4.3 Indication of any immediate n nedical attention and special treatment needed The first aid procedure should be established in consultation with the doctor Treatment : responsible for industrial medicine. 5. Firefighting measures 5.1 Extinguishing media Suitable extinguishing media : Carbon dioxide (CO2), Dry powder, Foam, Water mist Unsuitable extinguishing media : Water spray 5.2 Special hazards arising from the substance or mixture Specific hazards during firefighting : No information available 5.3 Advice for firefighters Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Full protective flameproof clothing Further information : Use water spray to cool unopened containers. Prevent fire extinguishing water from contaminating surface water or the ground water system 6. Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Wear suitable protective equipment. Personal precautions 6.2 Environmental precautions Do not allow material to contaminate ground water system. Environmental precautions Do not allow uncontrolled discharge of product into the environment. 6.3 Methods and materials for containment and cleaning up Methods for cleaning up : Sweep up and shovel into suitable containers for disposal. 6.4 Reference to other sections Refer to protective measures listed in sections 7 and 8 7. Handling and storage 7.1 Precautions for safe handling Advice on safe handling: Handle and open container with care. Use only with adequate ventilation. Avoid dust formation. Do not get in eyes or mouth or on skin. Wear suitable protective clothing, gloves and eye/face protection. Wash thoroughly after handling. Keep container closed when not in use. 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place. Keep only in the original container. Other data : Stable under normal conditions.

8. Exposure controls/personal protection

8.1 Control parameters Components CAS-No Value Control parameters Update Basis 2005-04-06 GB FH40 potassium hydroxide (Solution) 1310-58-3 STEL 2 mg/m^3

8.2 Exposure controls Engineering measures

9 Ph 9

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clisule that eyewash stations al	IU Salety Showers are close to the workstation location.
Personal protective equipment	nt
Respiratory protection :	In the case of dust or aerosol formation use respirator with an approved filter. Dust safety masks are recommended when the dust concentration is more than 10 mg/m ³ .
Hand protection :	Chemical resistant protective gloves
Eye protection :	Safety glasses with side-shields conforming to EN166
Skin and body protection :	Long sleeved clothing. Remove and wash contaminated clothing before re-use.
<u>Hygiene measures :</u>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye /face protection. When using do not eat, drink or smoke. Wash thoroughly after handling. Keep working clothes separately. Remove and wash contaminated clothing before re-use.
Environmental exposure cont	rols
General advice :	Do not allow material to contaminate ground water system.
	Do not allow uncontrolled discharge of product into the environment.
Physical and chemical propert	ies
9.1 Information on basic phys	ical and chemical properties
Appearance :	granular
Colour :	light brown
Odour :	very faint, to, odourless
Odour Threshold:	no data available
Flash point :	>= 100 °C
Ignition temperature :	no data available
Lower explosion limit :	no data available
Upper explosion limit :	no data available
Flammability (solid, gas) :	The product is not flammable.
Auto-ignition temperature :	not auto-flammable
pH:	8 - 12 Concentration : 2 % (as aqueous solution)
Melting point/range :	ca. 304 °C

Melting point/range : Note: no data available Vapour pressure : not applicable Density : 0.5 - 0.8 a/cm Relative density 0.5 - 0.8 at Water solubility soluble Partition coefficient: POW : n- octanol/water: log Pow: no data available Solubility in other solvents : no data available Note: no data available Viscosity, dynamic Viscosity, kinematic Note: not applicable Relative vapour density : not applicable no data available Evaporation rate : 9.2 Other information Oxidising potential: 10. Stability and reactivity 10.1 Reactivity Note: The substance or mixture is not classified as oxidizing. No dangerous reaction known under conditions of normal use. 10.2 Chemical stability Stable 10.3 Possibility of hazardous reactions Stable under normal conditions. Hazardous reactions : No dangerous reaction known under conditions of normal use. 10.4 Conditions to avoid Extremes of temperature and direct sunlight. Conditions to avoid 10.5 Incompatible materials Materials to avoid : Strong acids and strong bases. Oxidizing agents 10.6 Hazardous decomposition products Hazardous decomposition products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Thermal decomposition : Note: no data available 11. Toxicological information 11.1 Information on toxicological effects Acute toxicity LD50: 7,500 mg/kg Acute oral toxicity : Acute oral toxicity potassium LD50 Oral: 273 mg/kg hydroxide : 1,2-dihydropyridazine-3,6- dione, LD50: > 5,000 mg/kg potassium salt : Remarks: Maleic Hydrazide Acute inhalation toxicity : LC50: > 5 mg/l Acute inhalation toxicity 1,2-dihydropyridazine-3,6- dione, potassium salt : LC50: > 4.03 mg/l Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration. Acute dermal toxicity : LD50: > 2,000 mg/kg Acute dermal toxicity 1,2-dihydropyridazine-3,6- dione, LD50: > 5,000 mg/kg potassium salt : Remarks: Maleic Hydrazide Skin corrosion/irritation Skin irritation : Species: rabbit , Remarks: Based on available data, the classification criteria are not met. Skin irritation 1,2-dihydropyridazine-3,6- dione, Species: rabbit potassium salt : Remarks: Maleic Hydrazide Serious eye damage/eye irritation Eye irritation :

Species: rabbit Remarks: Based on available data, the classification criteria are not met. 1,2-dihydropyridazine-3,6- dione, Species: rabbit

Species: guinea pig

Eve irritation

potassium salt :

Sensitisation :

Sensitisation

potassium salt

Respiratory or skin sensitisation

1,2-dihydropyridazine-3,6- dione,

Result: No eye irritation Remarks: Maleic Hydrazide

Exposure time: 4 h

Exposure time: 4 h

Result: Mild skin irritation

Result: Mild skin irritation

Result: No eye irritation

Result: Did not cause sensitization on laboratory animals.

Species: rat

Species: rat

Species: rat

Species: rat

Species: rat

Species: rabbit

Species: rabbit

Buehler Test Species: guinea pig Classification: Does not cause skin sensitisation. Result: Did not cause sensitization on laboratory animals.

7.3 Specific end use(s) Plant growth regulator

Specific use(s):

Germ cell mutagenicity		
potassium salt :	Escherichia coli Salmonella typhimurium Bacillus subtilis	Result: negative Result: negative Result: positive Remarks: Maleic Hydrazide
	Bacillus subtilis Chinese hamster ovary cells	Result: positive
	Chinese hamster ovary cells	Result: negative
	Mouse Lymphoma	Result: negative
Genotoxicity in vivo	Human lymphocytes	Result: negative
1,2-dihydropyridazine-3,6- dione,	Species: mouse	
potassiam sare.	Dose: 0, 0.5, 1.0 and 5.0 g/kg bw	Result: negative
	Dose: 0,0.02,0.2,1.3 and 7.5g/kg bw	Result: negative
	Species: mouse Dose: 0, 2,500 and 5,000 mg/kg bw	Result: negative
	Species: mouse Dose: 0, 2,500 and 5,000 mg/kg bw	Result: negative
	Species: mouse Dose: 0.110.551.800 and 1101mg/kg bw	Result: negative
	Species: Drosophila melanogaster	Result: negative
Mutagenicity Assessment	Dose, 0, 0.4 and 1.0 %	inesult. negative
Carcinogenicity Assessment	Based on available data, the classification crite	ria are not met.
Remarks : Reproductive toxicity Assessme	Based on available data, the classification crite It	ria are not met.
Remarks : Target Organ Systemic Toxicant	Based on available data, the classification crite - Single exposure	ria are not met.
Remarks : Target Organ Systemic Toxicant	Based on available data, the classification crite	ria are not met.
1,2-dihydropyridazine-3,6- dione,		Analization Deuter Oral
potassium sait :	Species: rat, male and remaie Dose: 30,100,300 and 1,000mg/kg bw/d NOEL: 1000 mg/kg bw/day Species: dog. male and female	Application Route: Oral Exposure time: 13 weeks () Maleic Hydrazide
	Dose: 750, 2,500, 7,500 & 25,000 ppm NOEL: 25,000 ppm (625 mg/kg bw/day)	Exposure time: 13 weeks ()
	Method: OECD Test Guideline 409	Maleic Hydrazide
	Dose: 750, 2,500 and 25,000 ppm	Exposure time: (1 y)
	Species: rat, male and female	Maleic Hydrazide
	Dose: 50, 100, 500 and 1,000 mg/m ³ NOEL: 500 mg/m ³ for males / >1,000 mg/m ³ for	Exposure time: 28-day() or females
	Method: OECD Test Guideline 412 Species: rat, male and female	Maleic Hydrazide
	Dose: 100,500&1,000 mg/kg bw/day Exposure	e time: (21 d) Maleic Hydrazide
Toxicology Assessment	Remarks: Based on available data, the classifica	ation criteria are not met.
Further information : 12. Ecological information	no data available	
12.1 Toxicity Toxicity to fish ·	(50: 130.8 ma/l	Exposure time [,] 96 h
	Species: Oncorhynchus mykiss (rainbow trout)	Exposure time: 96 h
The first set Cali	Species: Oncorhynchus mykiss (rainbow trout)	Exposure time. 90 fr
1,2-dihydropyridazine-3,6- dione,		
potassium salt :	LC50: > 134.8 mg/l Species: Oncorhynchus mykiss (rainbow trout)	Exposure time: 96 h
	static test Method: OECD Test Guideline 203 NOEC: > 134.8 mg/l	Exposure time: 96 h
	Species: Oncorhynchus mykiss (rainbow trout)	
Toxicity to daphnia and other aqua	atic invertebrates :	Evenoruro timo, 49 h
	Species: Daphnia magna (Water flea)	Exposure time: 48 fi
	EC50: 244 mg/l Species: Daphnia magna (Water flea)	Exposure time: 48 h
Toxicity to daphnia and other aqua 1,2-dihydropyridazine-3,6- dione,	atic invertebrates	
potassium salt :	EC50: 684.6 mg/l Species: Daphnia magna (Water flea)	Exposure time: 48 h
	static test Method: OECD Test Guideline 202	Exposure time: 48 h
	Species: Daphnia magna (Water flea)	
Toxicity to algae :	EC50: 445.2 mg/l	Exposure time: 72 h
	NOEC: 179.6 mg/l	Exposure time: 72 h
	Species: Pseudokirchneriella subcapitata EC50: 12.3 mg/l	Exposure time: 7 d
	Species: Myriophyllum aquaticum (aquatic ma NOEC: 3.2 mg/l	crophyte plant) Exposure time: 7 d
	Species: Myriophyllum aquaticum (aquatic ma	acrophyte plant) Exposure time: 4 d
	Species: Myriophyllum aquaticum (aquatic ma	crophyte plant)
Tovicity to -1	Species: Myriophyllum aquaticum (aquatic ma	acrophyte plant)
1,2-dihydropyridazine-3,6- dione,	FCF0 - 1040 - "	
potassium salt :	ECSU: > 134.8 mg/l Species: Pseudokirchneriella subcapitata (gree	Exposure time: 72 h n algae)
	Method: OECD Test Guideline 201 NOEC: > 134.8 mg/l	Exposure time: 72 h
	Species: Pseudokirchneriella subcapitata (gree Method: OECD Test Guideline 201	n algae)
	EC50: > 134.8 mg/l Species: Anabaena flos-aquiae (cyanobactoriur	Exposure time: 72 h
	Method: OECD Test Guideline 201	Evnosura time: 72 k
	Species: Anabaena flos-aquae (cyanobacteriur	n)
	Method: OECD Test Guideline 201 EC50: 64.3 mg/l	Exposure time: 7 d
	Species: Myriophyllum aquaticum (aquatic ma	crophyte plant)

	NOEC: 4.3 mg/l	Exposure time: 7 d			
	EC50: > 134.8 mg/l	Exposure time: 4 d			
	Species: Myriophyllum aquaticum (aquatic	macrophyte plant)			
	Species: Myriophyllum aquaticum (aquatic i	nacrophyte plant)			
Toxicity to fish (Chronic toxicity)	NOEC: 30 mg/l	Exposure time: 21 d			
	Species: Oncorhynchus mykiss (rainbow tro	ut) Exposure time: 21 d			
	Species: Oncorhynchus mykiss (rainbow tro	ut)			
Toxicity to fish (Chronic toxicity)					
potassium salt :	NOEC: 9.6 mg/l	Exposure time: 32 d			
	Species: Pimephales promelas (fathead min	now)			
	LOEC: > 9.6 mg/l	Exposure time: 32 d			
	Species: Pimephales promelas (fathead min	now)			
Toxicity to daphnia and other ag	Remarks: Maleic Hydrazide Jatic invertebrates (Chronic toxicity):				
	EC50: 110 mg/l	Exposure time: 21 d			
	Species: Daphnia magna (Water flea)	Exposure time: 21 d			
	Species: Daphnia magna (Water flea)	Exposure time. 21 d			
12.2 Persistence and degradab	lity Bemarks: no data available				
12.3 Bioaccumulative potentia					
Bioaccumulation :	Remarks: no data available				
Mobility :	Remarks: no data available				
12.5 Results of PBT and vPvB a	sessment	ither persistent hiercomulative			
and toxic (PBT), or very persistent	and very bioaccumulative (vPvB) at levels of (1.1% or higher.			
12.6 Other adverse effects		J			
Additional ecological information An environmental hazard cannot	: be excluded in the event of unprofessional ba	ndling or disposal			
Toxic to aquatic life with long las	ing effects.	namig of aisposan			
13. Disposal considerations					
Product : The product should no	t be allowed to enter drains, water courses or t	he soil.			
Do not contaminate ponds, wate	rways or ditches with chemical or used contain	ner.			
Contaminated packaging : Empt	remaining contents. Dispose of as unused pr	oduct.			
Do not re-use empty containers.					
ADR UN number :	3077				
UN proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTAN	CE, SOLID, N.O.S.			
Transport hazard class(es):	9	yridazine-3,6-dione, potassium sait)			
Packing group :	III M7				
Classification Code : Hazard Identification Number :	M7 90				
Labels :	9				
Figure 1 and	(E), full load, tank-container				
IATA UN number :	3077				
Description of the goods :	Environmentally hazardous substance, solid	, n.o.s.			
Class :	9	ynuazine-5,6-uione, polassium sail)			
Packing group :					
Environmentally hazardous :	9 Ves				
MDG UN number :					
Description of the goods :	(Isotridecyl alcohol ethoxylate, 1,2-dihydrog	vridazine-3,6-dione, potassium salt)			
Class :	9	· · · ·			
Packing group : Labels :	III 9				
EmS Number 1 :	F-A				
EmS Number 2 : Marine pollutant ·	S-F ves				
	Isotridecyl alcohol ethoxylate 1,2-dihydropy	ridazine-3,6- dione, potassium salt			
RID UN number : Description of the goods	3077 ENVIRONMENTALLY HAZARDOUS SUBSTAN	CE, SOLID, N.O.S.			
	(Isotridecyl alcohol ethoxylate, 1,2-dihydrop	yridazine-3,6-dione, potassium salt)			
Transport hazard class(es) : Packing group :	9 				
Classification Code :	M7				
Hazard Identification Number : Labels ·	90 9				
Environmentally hazardous :	yes				
15. Regulatory information	mental regulations/legislation specific for t	he substance or mixture			
REACH - Candidate List of Substa	nces of Very High Concern for Authorisation (A	article 59). :			
This product does not contain su	ostances of very high concern (Regulation (EC)	No 1907/2006 (REACH), Article 57).			
Update:	2003 Directive 96/82/EC does not apply				
Water contaminating class (Germany	: WGK 1 slightly water endangering				
16. Other information	nt				
Full text of R-phrases referred	o under sections 2 and 3				
R22 Harmful if swallowed. R35 Causes severe burns.					
R36 Irritating to eyes.					
R36/38 Irritating to eyes and skin R38 Irritating to skin.					
R41 Risk of serious damage to	eyes.				
Full text of H-Statements refer	is, may cause long-term adverse effects in the ed to under sections 2 and 3.	aquatic environment.			
H302 Harmful if swallowed.					
H314 Causes severe skin burns H315 Causes skin irritation	and eye damage.				
H318 Causes serious eye dama	je.				
H319 Causes serious eye irritati	on. ong lasting effects				
Carechem24 International Worldwide Coverage - Chemtura Corporation - Emergency Phone Number					
All Europ	ean Countries +44 (0) 1235 239 67	70 (NCEC)			
The information monitoled in this Cofeen I	when the second at the sheet of some location is a second and a second sec	the second state of the second state second			

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