maxill

SAFETY DATA SHEET

1. Product and Company Identification

	1. Product and Compar	iy identification	
Product identifier	Auto System Fixer		
Other means of identification	Not available.		
Recommended use	Fixing solution for X Ray films		
Recommended restrictions	None known.		
Manufacturer information	maxill Inc. 80 Elm Street St. Thomas, ON N5R 6C8 CA Phone: 519-631-7370 Fax: 519-631-3388 Website: maxill.com		
Supplier	See above.		
Emergency Response Number	ChemTel: 1-800-255-3924, outside US a CANUTEC: 1-888-CAN-UTEC (226-883)		
	2. Hazards Identific	ation	
Physical hazards	Not classified.		
Health hazards	Skin corrosion/irritation	Category 2	
	Serious eye damage/eye irritation	Category 1	
	Reproductive toxicity	Category 1B	
Environmental hazards	Not classified.		
WHMIS 2015 defined hazards	Not classified		
Label elements			
Signal word Hazard statement	Danger Causes skin irritation. Causes serious eye damage. May damage fertility or the unborn child		
Processionary statement	may damage tertility of the unborn child	•	
Precautionary statement Prevention	Obtain special instructions before use. Do not handle until all safety precaution Wash thoroughly after handling. Wear protective gloves/protective clothi	ng/eye protection/face protection.	
Response	 IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. IF exposed or concerned: Get medical advice/attention. 		
Storage	Store locked up.		
Disposal	Dispose of contents/container in accordation	ance with local/regional/national/international regulations.	
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known		
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		

3. Composition/Information on Ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	%
Acetic acid		64-19-7	1 – 5
Sodium sulfite		7757-83-7	1 – 5
Aluminum sulphate		10043-01-3	0.5 – 1.5
Sodium Tetraborate		1303-96-4	0.5 – 1.5

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

	4. First Aid Measures		
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.		
Skin contact	IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. T off contaminated clothing and wash it before reuse. Specific treatment (see information on this label).		
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pre- and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.		
Ingestion	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Get medical attention if symptoms occur.		
Most important symptoms/effects, acute and delayed	Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.		
Indication of immediate medical attention and special treatment needed	Symptoms may be delayed.		
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor i attendance. Avoid contact with eyes and skin. Keep out of reach of children.		
	5. Fire Fighting Measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).		
Unsuitable extinguishing media	Not available.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.		
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.		
General fire hazards	No unusual fire or explosion hazards noted.		
Hazardous combustion products	May include and are not limited to: Ammonia.		
	6. Accidental Release Measures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.		
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Never return spills in original containers for re-use. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.		
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.		

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Provide adequate ventilation. Avoid prolonged exposure. Observe good industrial hygiene practices. Wash thoroughly after handling. When using do not eat or drink.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Value Components Туре Acetic acid (CAS 64-19-7) PEL 25 ma/m3 10 ppm **US. ACGIH Threshold Limit Values** Value Form Components Туре Acetic acid (CAS 64-19-7) STEL 15 ppm TWA 10 ppm Aluminum sulphate (CAS TWA 1 mg/m3 Respirable fraction. 10043-01-3) Sodium Tetraborate (CAS STEL 6 mg/m3 Inhalable fraction. 1303-96-4) TWA 2 mg/m3 Inhalable fraction. **US. NIOSH: Pocket Guide to Chemical Hazards** Components Туре Value Acetic acid (CAS 64-19-7) STEL 37 mg/m3 15 ppm TWA 25 mg/m3 10 ppm Aluminum sulphate (CAS TWA 2 mg/m3 10043-01-3) TWA Sodium Tetraborate (CAS 5 mg/m3 1303-96-4) **Biological limit values** No biological exposure limits noted for the ingredient(s). **Exposure guidelines** Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL. Ensure adequate ventilation. Appropriate engineering controls Individual protection measures, such as personal protective equipment Eye/face protection Wear safety glasses with side shields (or goggles). Skin protection Rubber gloves. Confirm with a reputable supplier first. Hand protection Other As required by employer code. **Respiratory protection** Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Not applicable. **Thermal hazards** When using do not eat or drink. **General hygiene** considerations 9. Physical and Chemical Properties Appearance Clear

Form

Physical state

Liquid.

Liquid.

Color	Colorless			
Odor	Ammonium thiosulfate			
Odor threshold	Not available.			
рН	4.6			
Melting point/freezing point	Not available.			
Initial boiling point and boiling range	> 212 °F (> 100 °C)			
Pour point	Not available.			
Specific gravity	Not available.			
Partition coefficient (n-octanol/water)	Not available.			
Flash point	Not available.			
Evaporation rate	Not available.			
Flammability (solid, gas)	Not applicable.			
Upper/lower flammability or exp	osivelimits			
Flammability limit - lower (%)	Not available.			
Flammability limit - upper (%)	Not available.			
Explosive limit - lower (%)	Not available.			
Explosive limit - upper (%)	Not available.			
Vapor pressure	Not available.			
Vapor density	Not available.			
Relative density	Not available.			
Solubility(ies)	Not available.			
Auto-ignition temperature	Not available.			
Decomposition temperature	Not available.			
Viscosity	Not available.			
Other information				
Density	1.09 @ 25C			
Explosive properties	Not explosive.			
Oxidizing properties	Not oxidizing.			

10. Stability and Reactivity

Reactivity	May react with incompatible materials.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Ammonia.

11. Toxicological Information

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.		
Information on likely routes of e	exposure		
Ingestion	May cause stomach distress, nausea or vomiting.		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	Causes skin irritation.		
Eye contact	Causes serious eye damage.		
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.		
Information on toxicological eff	ects		

Acute toxicity

	3300 mg/kg
Rabbit	1112 mg/kg
	1060 mg/kg
	Guinea pig
	5000 ppm, 1 Hours
Mouse	5620 ppm, 1 Hours
	2810 ppm, 4 Hours
	6.9 mg/l/4h
Rat	11.4 mg/L, 4 Hours
	-
Mouse	4960 mg/kg
Rabbit	1200 mg/kg
Rat	3310 mg/kg
,	
Not available	
Guinea pig	490 mg/kg
Mouse	> 730 mg/kg
Rat	1930 mg/kg
)	
,	
Not available	
Rat	> 5.5 mg/l/4h
Mouse	820 mg/kg
Rat	3560 mg/kg
3-96-4)	
Rabbit	10000 mg/kg
Rat	, 0.002 mg/l/4h
	5000 /
	5330 mg/kg
	2000 mg/kg
Rat	2660 mg/kg
	396 mg/kg
Causes skin irritation.	
Not available.	
	Rat Mouse Rabbit Rat 3-01-3) Not available Guinea pig Mouse Rat Not available Rat Rat Rat Rat Rat Aouse Rat Auses Rat Causes skin irritation.

Oedema value	Not available.		
Serious eye damage/eye irritation	Causes serious eye damage.		
Corneal opacity value	Not available.		
Iris lesion value	Not available.		
Conjunctival reddening value	Not available.		
Conjunctival oedema value	Not available.		
Recover days	Not available.		
Respiratory or skin sensitization			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	See below.		
IARC Monographs. Overall E	Evaluation of Carcinogenicity		
Sodium sulfite (CAS 7757 US. OSHA Specifically Regu	7-83-7) Volume 54 - 3 Not classifiable as to carcinogenicity to humans. Iated Substances (29 CFR 1910.1001-1050)		
Not listed.			
Reproductive toxicity	May damage fertility or the unborn child.		
Teratogenicity	Not available.		
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful.		

12. Ecological Information

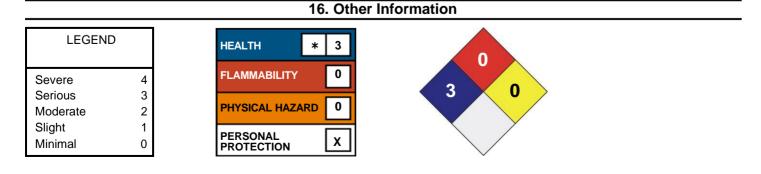
Ecotoxicity	See below		
Ecotoxicological data Components		Species	Test Results
Acetic acid (CAS 64-19-7)			
Crustacea	EC50	Daphnia	47 mg/L, 48 Hours
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	75 mg/L, 96 hours
Aluminum sulphate (CAS 10043-	01-3)		
Aquatic			
Crustacea	EC50	Amphipod (Crangonyx pseudogracilis)	11.8 - 14 mg/L, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	3.4 - 5.6 mg/L, 96 hours
Sodium sulfite (CAS 7757-83-7) Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	660 mg/L, 96 hours
Persistence and degradability Bioaccumulative potential	No data is av	ailable on the degradability of thisproduct.	
Mobility in soil Mobility in general	No data avail	No data available.	
wobility in general	Not available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
	1	3. Disposal Considerations	
Disposal instructions	Dispose of co	ntents/container in accordance with local/re	egional/national/international regulations.
Local disposal regulations	Dispose in ac	cordance with all applicable regulations.	
Hazardous waste code	The waste co disposal com	de should be assigned in discussion betwe bany.	en the user, the producer and the waste

Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

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Transport of Dangerous Goods (TDG) Proof of Classification	In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.
U.S. Department of Transportat	ion (DOT)
Not regulated as dangerous g	Joods.
Transportation of Dangerous G	oods (TDG - Canada)
Not regulated as dangerous g	joods.
	15. Regulatory Information
Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.
Canada Priority Substances	s List (Second List): Listed substance
Aluminum sulphate (CAS Export Control List (CEPA	
Not listed. Greenhouse Gases	
Not listed. Precursor Control Regulation	ons
Not regulated.	
WHMIS 2015 Exemptions	Controlled
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt. D)
Not regulated. CERCLA Hazardous Substa	ance List (40 CFR 302.4)
Acetic acid (CAS 64-19-7 Aluminum sulphate (CAS US. OSHA Specifically Reg	
Not listed.	
Superfund Amendments and Re	eauthorization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting) Not regulated.	
Other federal regulations	
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutants (HAPs) List
Not regulated. Clean Air Act (CAA) Sectior	n 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.
Chemical Code Numbe	ninistration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and r
Not listed.	
Not regulated.	ninistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
DEA Exempt Chemical Not regulated.	Mixtures Code Number

FEMA Priority Sub	stances Respiratory Health	and Safety in the Flavor Manufacturi	ng Workplace
Acetic acid (CAS 64-19-7)		High priority	
Food and Drug Administration (FDA)	Not regulated.		
US state regulations	See below		
US - California Haz	ardous Substances (Directo	or's): Listed substance	
Acetic acid (CAS 64-19-7)		Listed.	
Aluminum sulphate (CAS 10043-01-3)		Listed.	
Sodium Tetraborate (CAS 1303-96-4) US - Illinois Chemical Safety Act: Listed substa		Listed.	
Acetic acid (CA	•		
	ate (CAS 10043-01-3)		
	I Reporting: Listed substan	ce	
Acetic acid (CA		Listed.	
Aluminum sulphate (CAS 10043-01-3)		Listed.	
	z Subs: Listed substance		
Acetic acid (CA		Listed. Listed.	
Aluminum sulphate (CAS 10043-01-3) Sodium Tetraborate (CAS 1303-96-4)		Listed.	
	TK - Substances: Listed sul		
Acetic acid (CA	S 64-19-7)		
	ate (CAS 10043-01-3)		
	orate (CAS 1303-96-4)	d autotanaa	
	a Toxic Air Pollutants: Liste	a substance	
Acetic acid (CA US - Texas Effects	S 64-19-7) Screening Levels: Listed s	ıbstance	
Acetic acid (CAS 64-19-7)		Listed.	
Aluminum sulphate (CAS 10043-01-3) Sodium sulfite (CAS 7757-83-7)		Listed. Listed.	
Sodium Tetraborate (CAS 1303-96-4)		Listed.	
	RTK - Substance List		
Acetic acid (CA	S 64-19-7)		
Aluminum sulphate (CAS 10043-01-3)			
	orate (CAS 1303-96-4) orker and Community Right	to Know Act	
•	orker and Community Right	to-Kilow Act	
Not regulated. US. Pennsylvania I	RTK - Hazardous Substance	S	
Acetic acid (CA			
Aluminum sulph	ate (CAS 10043-01-3)		
	orate (CAS 1303-96-4)		
US. Rhode Island F			
Acetic acid (CA Aluminum sulph	S 64-19-7) ate (CAS 10043-01-3)		
US. California Proposit	. ,		
Not Listed.			
Inventory status			
Country(s) or region	Inventory name		On inventory (yes/no)*
Canada	Domestic Substances	List (DSL)	Yes
Canada	Non-Domestic Substa		No
United States & Puerto R		trol Act (TSCA) Inventory	Yes
*A "Yes" indicates that all co		with the inventory requirements administered	d by the governing country(s)



Disclaimer	Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.	
Issue date	2021-04-12	
Version #	02	
Effective date	2021-04-12	
Other information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.	