Safety Data Sheet

ATM Galvanized Spray 2IN1 No. G300

Version: 1.1

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1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Material name : ATM Galvanized Spray 2IN1 No. G300

Recommended use : Great for top coating applications on cutting or welding of various surfaces such as galvanized steel, carbon steel, zinc steel, stainless steel, aluminium or carbon steel square tube.

Supplier : U.R. Chemical Co., Ltd.

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2. HAZARD IDENTIFICATION

GHS Classification :

-	Flammable Aerosols	Category 1
-	Skin Irritation	Category 2
-	Serious Eye Damage	Category 1
-	Reproductive Toxicity	Category 2
-	STOT.SE (Respiratory irritation and Narcotic effect)	Category 3
-	STOT.RE (Blood Form Organs and Immune System)	Category 1
-	STOT.RE (CNS, Auditory and Visuals System)	Category 2
-	Germ Cell Mutagenicity	Category 1B
-	Carcinogenicity	Category 1A
	Chronic Aquatic	Category 3

GHS Label Elements :

Symbol (s)

Signal words : DANGER

GHS Hazard Statement

Physical Hazard	:	-	H222	Extremely flammable aerosol.
Health Hazard	:	-	H315	Causes skin irritation.
		-	H318	Causes serious eye damge.
		-	H361	Suspected of gamaging fertility or the unborn child.
		-	H335	May cause respiratory irritation.
		-	H336	May cause drowsiness or dizziness.
		-	H340	May cause genetic defects.
		-	H350	May cause cancer.
		-	H372	Causes damage to organs through blood from organs and immune system.
		-	H373	May cause damage to organs though CNS, auditory and visuals system.
Environmental Hazard	:	-	H412	May cause long lasting harmful effects to aquatic life.

GHS Precautionary

Statement

Prevention	:	-	P210	Keep away from heat/ sparks/ open flames/ hot surfaces/ no smoking.
		-	P211	Do not spray on an open flame or other ignition source.
		-	P251	Do not pierce or burn, even after use.
		-	P203	Obtain, read and follow all safety instructions before use.
		-	P280	Wear protective gloves, eyes and face protection equipment.
		-	P264	Wash thoroughly after handing.
		-	P270	Do not eat, drink or smoke when using this product.
		-	P271	Use only outdoors or in a well-ventilated area.
		-	P240	Ground/ bond container and receiving equipment.
		-	P260	Do not breathe dust/ fume/ gas/ mist/ vapors/spray.
		-	P273	Avoid release to the environment.
Response	:	-	P303+P352+P353	IF ON SKIN (or hair): Wash with plenty of soap and rinse skin with water/ shower.
		-	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presented and easy to do. Continued rinsing.
		-	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
		-	P318+P319	If exposed or concerned, get medical advice or get medical help if you feel unwell.
		-	P332+P337+P313	IF skin irritation occurs: Get medical help.
		-	P362+P364	Take off contaminated clothing and wash it before reuse.
Storage		-	P410+P412	Protect from sunlight. Do not expose to temperature exceeding 50°C / 122 °F
		-	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
		-	P405	Store locked up.

Disposal	-	P501	Dispose of contents/ container to appropriate waste reclaimer in accordance with local and national regulations.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Hazardous Components

Components	CAS No.	% w/w	Hazard Category	
Toluene	108-88-3	10 – 20%	- Flammable Liquids	Category 2
			- Skin Irritation	Category 2
			- Eye Irritation	Category 2
			- Reproductive Toxicity	Category 2
			- Germ Cell Mutagenicity	Category 1B
			- Carcinogenicity	Category 1A
			- STOT.SE	Category 3
			- STOT.RE (CNS, Auditory and Visuals System)	Category 2
			- STOT.RE (Blood Form Organs and Immune System)	Category 1
			- Aspiration Hazard	Category 1
			- Chronic Aquatic	Category 2
Xylene	1330-20-7	20 - 30%	- Flammable Liquid	Category 3
			- Acute Toxic - Dermal	Category 4
			- Acute Toxic - Inhalation	Category 4
			- Skin Irritation	Category 2
			- Eye Irritation.	Category 2
			- STOT (SE), Respiratory System	Category 3
			- STOT (RE), Auditory Organ	Category 2
			- Aspiration Hazard	Category 1
Acetone	67-64-1	30 - 40%	- Flammable Liquids	Category 2
			- Eye Irritation	Category 2A
			- Aspiration	Category 2
			- STOT.SE (Central Nervous System)	Category 3
Butyl Acetate	123-86-4	10– 20%	- Flammable Liquid,	Category 3
			- STOT (SE), Narcotic Effect	Category 3
Liquefied Petroleum Gas (LPG)	68476-85-7	Proprietary	- Flammable Gas	Category 1
Pigment	Proprietary	Proprietary	Not Classified	

4. FIRST-AID MEASURES

Inhalation	:	Remove to fresh air, if rapid recovery does not occur, transport to nearest medical facility for additional treatment.
Skin contact	:	Remove contaminated clothing. In a shower, wash affected area with soap and water at least 15 minutes. Seek medical attention if irritant occurs or persists. Wash clothing before reuse.
Eye contact	:	Remove contact lenses, if present. Immediately flush eyes with plenty of clean running water at least 15 minutes while holding eyelids open. If eye irritation, burning sensation, redness, swelling and/ or blurred vision. Transport to the nearest medical facility for additional treatment.
Ingestion	:	If swallowed, do not induce vomiting, transport to the nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon dioxide sand or earth may be used for small fires only.
Unsuitable extinguishing	:	Do not use water in a jet.
Specific hazard arising from chemicals	:	The combustion can emit the irritating and toxic vapors/fumes as carbon monoxide, carbon dioxide. The vapor is heavier than air, spreads along the ground and distant ignition is possible.
Protective equipment & precautions for fire fighters	:	Wear protective clothing and self-contained breathing apparatus.
Additional advice	:	Keep adjacent containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Protective equipment and Emergency procedures : Avoid contact with eyes, skin and clothing by using the suitable protective equipment as required.

Environmental precautions : Use appropriate containment (of product and firefighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Authorities should be notified if reportable quantity release occurs.

Method and material for containment and clean up : For small liquid spills (< 1 drum): transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal.

For large liquid spills (> 1 drum): Perform with same method for small liquid spills. Retain as contaminated waste. Recover or recycle if possible.

7. HANDLING AND STORAGE

Precautions for safe handling : Avoid inhale vapour and/or mist. Avoid contact with skin, eye and clothing.

Only use in a well-ventilated area. Wash thoroughly after handing. Do mot smoke. Remove ignition sources. Avoid sparks. Keep container closed

when not in use. Handing temperature: Ambient.

Conditions for safe storage/ Including any incompatability : Keep away from aerosol, flammables, incompatible materials such as oxidizing agent, corrosive and other flammable products. The container should be labelled and keep tightly closed. Keep in a well-ventilated place. Keep cool.

Storage temperature: Ambient.

Recommended materials Unsuitable materials Container advice : For container, use mild steel or stainless steel. Avoid prolonged contact with natural, butyl or nitrile rubble. Containers, even those that have been emptied can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operation on or near containers.

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Threshold limit for exposure control

Occupation exposure limits

Material	ACGIH TLV		Remark
	TWA	STEL	
Toluene	20 ppm	-	
Benzene	0.5 ppm	2.5 ppm	
Ethylbenzene	20 ppm	-	
Xylene	100 ppm	150 ppm	
Acetone	250 ppm	50 ppm	
2-butoxyethanol	20 ppm	-	
Propane	1000 ppm	-	
Propylene	500 ppm	-	

Occupation exposure limits : Not available

Appropriate engineering control : Select controls based on a risk assessment of local circumstances. Appropriate measures include: Use sealed systems as far as possible. Adequate ventilation to control airborne concentrations below the exposure guidelines/limits are recommended.

Individual protection measures

Respiratory protection : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation.

Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for organic gases and vapors [boiling point > 65 °C (149 °F) meeting EN14387.

Where respiratory protective equipment is required, use a full-face mask.

Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.

Hand protection	:	Using gloves constructed of chemical resistant materials such as heavy nitrile rubber if frequent or prolonged contact is expected. Neoprene or PVC gloves also be using in case of incidential contact or splash protection. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.
Eye protection	:	Chemical splash goggles (chemical monogoggles). Eye washes and showers for emergency use are recommended to the work area.
Protective clothing	:	Protective gloves, safety shoes and boots are recommended.
Remark	:	Personal protective equipment is not considered to long term solution of exposure control.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Galvanized silver colour spray.
Odor	:	Characteristic odor.
Initial Boiling Point	:	Not available
Melting Point	:	Not available
Flash point	:	-73 °C (Based on LPG data.)
Pressure	:	4.5-5 kg/cm^{-2} at 30 °C
Viscosity (Ford Cup No.4)	:	12-13 sec (In liquid state) at 25° C
Specific Gravity (water = 1)	:	0.890 – 0.950 at 25° C
Water solubility	:	Immiscible

10. STABILITY AND RELIABILITY

Chemical stability	:	Stable under normal conditions of use.
Possibility of hazardous reaction	:	Not available
Condition to avoid	:	Avoid from heat, sparks, open flames and other ignition sources. Do not expose to temperatures exceeding 50 °C/122 ˚F.
Incompatible materials	:	Strong oxidizing agent
Hazardous decomposition products	:	Thermal decomposition is highly dependent on conditions. A complex mixture of airbone solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds may be evolved when this material undergoes combustion or thermal or oxidative degradation.

11. TOXICOLOGICAL INFORMATION

Basis of assessment	:	Information given is based on product data, mixtures of product and/ or the similar product and/ or ingredients.
Acute oral toxicity	:	Expected to be low of toxicity.
Acute dermal toxicity	:	Expected to be low of toxicity.
Acute inhalation toxicity	:	Expected to be low of toxicity.
Skin corrosion/ irritation	:	Causes irritation to skin. Prolong or repeated exposure may cause skin dryness or dermatitis.
Sensitization	:	Not available based on raw material data.
Serious eye damage/ irritation	:	Risk of serious eye damage.
Respiratory tract irritation	:	Not available based on raw material data.
Aspiration hazard	:	The classification criteria are not met based on raw material data.
Germ cell mutagenicity	:	May cause genetic defects.
Carcinogenicity	:	May cause cancer.
Reproductive toxicity	:	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity -Single exposure	:	Vapors may cause respiratory irritation, drowsiness and dizziness.
Specific target organ toxicity -Repeated exposure	:	Causes damage to organs through blood from organs and immune system.

Prolonged or repeated exposure affects the Central Nervous System and the respiratory system. Effects were seen at high dose only.
Visual system: may cause decreased color perception. These subtle changes have not been found to lead to functional colour vision deficits.

Auditory system: prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss.

12. ECOLOGICAL INFORMATION

Basis for Assessment : The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.

Environmental Toxicity : May cause long lasting harmful effects to aquatic life.

Acute Toxicity

Component	Species	Toxicity Value
Toluene	Fish	LC50 (Oncorhynchus mykiss): 1 mg/L Exposure time: 96 h
	Aquatic Invertebrates	EC50 (Daphnia magna (Water flea)): 1.2 mg/L Exposure time: 48 h
	Algae	EC50 (Pseudokirchneriella subcapitata): 1.3 mg/L Exposure time: 96 h

Mobility : The product can be adsorbed on soil and partitioning to water. This may cause the contamination in ground water.

Persistence/degradability

% Biodegradation : 7.3 %
Exposure time: 28 day
Method: OECD Test Guideline 301F
(Based on component data of product - Toluene)

Bioaccumulate potential : Bioaccumulation is unlikely.

13. DISPOSAL CONSIDERATION

Material disposal : Recover or recycle if possible. It is responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.

Container disposal : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Send a disposal container to drum recover or metal reclaimer.

14. TRANSPORT INFORMATION

	ADR /RID	IMDG	IATA
UN Number	1950	UN 1950	1950
Proper Shipping Name	Aerosols	AEROSOLS	Aerosols
Class	2.1	2.1	2.1
Packing group	N.A.	N.A.	N.A.
Environmentally Hazardous	Protect from direct sunlight Product must be store below 50 ˚C	Protect from direct sunlight Product must be store below 50 ˚C	

15. REGULATORY INFORMATION

- Hazardous substances ACT, B.E. 2535 (1992)
- Notification of statement of the hazardous substances committee subject to Transportation of Dangerous Goods by road B.E. 2545 (2002)
- Notification of the Ministry of Industry subject to responsibility of Department of Industrial Works for hazardous substances containment B.E. 2551 (2008)
- Notification of the Ministry of Industry subject to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) B.E. 2555 (2012)

16. OTHER INFORMATION

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Disclaimer : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be constructed as guaranteeing any specific property of the product.