# **Material Safety Data Sheet**

Metco 601NS, SPM 2-2658, AMDRY 2010

Sulzer Metco

SULZER

1. Product and	company identification
Common name	: Metco 601NS, SPM 2-2658, AMDRY 2010
Material uses	: Metal industry: Used by spraying
Supplier	: Sulzer Metco (US) Inc. 1101 Prospect Avenue Westbury, NY 11590
Telephone no.	: (516) 334 - 1300 (7:30AM - 4:00PM)
Emergency Phone	: CHEMTREC 800-424-9300
Calls Outside the United States	: +1 202-483-7616 (USA) 24 hour Chemtrec International Emergency Response Service
2. Hazards ider	ntification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview	
Physical state	: Solid. [Metallic powder.]
Color	: Gray.
Odor	: Odorless.
Health hazards	: Warning!
	CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN, EYE, LENS OR CORNEA.
Potential acute health effect	t <u>s</u>
Routes of entry	: Inhalation, Ingestion, Skin contact, Eye contact
Eyes	: Moderately irritating to eyes.
Skin	: Exposure to high concentrations may result in health complaints. Prolonged or repeated exposure may be irritating (redness, pain).
Inhalation	: Exposure to high concentrations may result in health complaints. Irritating to respiratory system. Exposure may result in depressed respiration, coughing, nausea and sore throat. Prolonged or repeated exposure to large amounts may cause damage to lungs (lung edema).
Ingestion	: Prolonged or repeated exposure may be irritating to mouth, throat and esophagus (sore throat, nausea).
Medical conditions aggravated by over- exposure	: Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged exposure to the substance can produce lung damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated or prolonged exposure to the substance can produce target organs damage.
Environmental effects	: No known significant effects or critical hazards.
3. Composition	/information on ingredients

# Ingredient nameCAS Number% by weightAluminum Powder7429-90-553Poly-p-oxybenzoate powder26099-71-840Silicon7440-21-37

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#### 4. First aid measures

Eye contact	<ul> <li>Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.</li> </ul>
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.</li> </ul>
Inhalation	: Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ingestion	: Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## 5. Fire-fighting measures

Auto-ignition temperature	: Not available.
Flash point	: None.
Flammable limits	: Not Combustible
Extinguishing media	
Suitable	: Use approved Class D extinguisher or smother with dry sand, dry clay or dry ground limestone.
Not suitable	: Do not use water. Do not use dry chemical, CO2 or halon.
Special exposure hazards	: Fine dust clouds may form explosive mixtures with air.
Hazardous thermal decomposition products	: Some metallic oxides.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Special remarks on fire hazards	: In case of fire at elevated temperatures this material may evolve hydrogen on contact with extinguishing water, due to the presence of elemental aluminum.
Fire hazards in the presence of various substances	: Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and shocks and mechanical impacts
Explosion hazards in the presence of various substances	: Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and shocks and mechanical impacts

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#### 6. Accidental release measures

Personal precautions	: Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment. Do not touch or walk through spilled material.
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up	: If emergency personnel are unavailable, contain spilled material. Pick up material with non - sparking shovel or explosion proof vacuum cleaner. Place spilled material in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal. Recycle, if possible.

#### 7. Handling and storage

Handling

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Keep away from heat, sparks and flame. Will react with water or steam to produce heat and toxic fumes. To avoid fire, eliminate ignition sources. Avoid creating dusty conditions when handling.

Storage

## : Keep container in a cool, well-ventilated area.

#### 8. Exposure controls/personal protection

Product name	Exposure limits	
United States		
Aluminium powder	ACGIH TLV (United States, 1/2006). TWA: 5 mg/m <sup>3</sup> , (as Al) 8 hour(s). TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Dust TWA: 5 mg/m <sup>3</sup> , (as Al) 8 hour(s). Form: Fume NIOSH REL (United States, 12/2001). TWA: 5 mg/m <sup>3</sup> 10 hour(s). Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 10 hour(s). Form: Total OSHA PEL (United States, 11/2006). TWA: 5 mg/m <sup>3</sup> , (as Al) 8 hour(s). Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> , (as Al) 8 hour(s). Form: Total dust	
Silicon	<b>OSHA PEL (United States, 11/2006).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hour(s). Form: Total dust	
<u>Canada</u>		
Aluminium powder	ACGIH TLV (United States, 1/2006). TWA: 5 mg/m <sup>3</sup> , (as Al) 8 hour(s). TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Dust TWA: 5 mg/m <sup>3</sup> , (as Al) 8 hour(s). Form: Fume	
<u>Mexico</u>		
Aluminium powder	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 5 mg/m <sup>3</sup> 8 hour(s). LMPE-PPT: 5 mg/m <sup>3</sup> 8 hour(s). Form: Powder	
Silicon	NOM-010-STPS (Mexico, 9/2000). LMPE-CT: 20 mg/m <sup>3</sup> 15 minute(s). LMPE-PPT: 10 mg/m <sup>3</sup> 8 hour(s).	
Consult local authorities for acceptable exposure limits.		
Engineering measures	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.	

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Personal protective equipme	nt
Eyes	: Safety glasses or goggles are recommended when handling this material. During the thermal spray process, safety goggles and dark lenses must be worn.
Skin	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	<ul> <li>Rubber or other appropriate gloves should be worn to minimize contact. For hygienic reasons rubber gloves should not be worn for more than 2 hours. During the thermal spray process, heat insulated gloves are recommended.</li> </ul>
Hearing Protection	: During the thermal spray process, the operator and other personnel close to the spray operation must be protected from excessive noise. Hearing protection that meets local standards should be used.
Protective Clothing (Pictograms)	
Personal protection in case of a large spill	: Wear suitable protective clothing, gloves and eye/face protection.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. Physical and chemical properties

Physical state	: Solid. [Metallic powder.]
Color	: Gray.
Odor	: Odorless.
Taste	: Not available.
Molecular weight	: Not applicable.
Molecular formula	: Not applicable.
рН	: Not applicable.
Boiling/condensation point	: Not available.
Melting/freezing point	: 590 to 700°C (1094 to 1292°F)
Explosive properties	: Fine dust clouds may form explosive mixtures with air.
Specific gravity	: Weighted average: 2.65 (Water = 1)
Vapor pressure	: Not available.
Volatility	: Not applicable.
Odor threshold	: Not available.
Evaporation rate	: Not available.
VOC	: Not applicable.
Partition coefficient	: Not available.
Ionicity (in water)	: Not available.
Dispersibility properties	: Not available.
Solubility	: Insoluble in the following materials: cold water and hot water.

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#### 10. Stability and reactivity

Stability and reactivity	: The product is stable under normal storage conditions.
Incompatibility with various substances	: Not available.
Hazardous decomposition products	: Ozone and nitric oxide are formed by plasma flame. This action is independent of material. Some metallic oxides.
Conditions to avoid	: Store and use away from heat, sparks, open flame or any other ignition source.
Materials to avoid	: Avoid contact with combustible materials, acids, oxidizing agents, halogenated hydrocarbons.
Conditions of reactivity	: Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and shocks and mechanical impacts.
	Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and shocks and mechanical impacts.
Conditions of instability	: Not available.

#### 11. Toxicological information

#### **Toxicity data**

Acute toxicity							
Product/ingredient name poly(oxy-1,4-phenylenecarb Silicon	oonyl)	Result LD LD50 LDLo		<b>Species</b> Rat Rat Rat	<b>Dose</b> >10 g/kg 3160 mg 500 mg/k	- /kg -	xposure
<b>Conclusion/Summary</b>	: Not avai	ilable.					
Chronic toxicity							
<b>Conclusion/Summary</b>	Not avai	ilable.					
Carcinogenicity							
<b>Conclusion/Summary</b>	: Not avai	ilable.					
<b>Classification</b>							
Product/ingredient name		ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Aluminium powder Silicon		-	-	-	None. None.	-	-
Other toxic effects on humans <u>Specific effects</u>		ific informati erial to huma		ble in our data	abase regarding	g the other t	oxic effects of
Carcinogenic effects	: No knov	vn significant	effects or o	critical hazard	S.		
Reproduction toxicity	: No knov	vn significant	effects or o	critical hazard	s.		
Target organs		s material wh e, lens or cor		damage to th	e following org	ans: upper i	espiratory tract,
Irritancy							
Ingestion	: No knov	vn significant	effects or o	critical hazards	S.		
Inhalation	: Irritating	to respirator	y system.				
Eyes	: Moderat	ely irritating	to eyes.				
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Skin

Synergistic products

: Irritating to skin.

ucts : Not available.

#### 12. Ecological information

Environmental effects Aquatic ecotoxicity	:	No known significant effects o	or critical hazards.		
Product/ingredient name Aluminium powder		Test Mortality	Result Acute LC50 0.31 mg/L	<b>Species</b> Fish	Exposure 96 hours
		Mortality	Acute LC50 0.16 mg/L	Fish	96 hours
		Mortality	Acute LC50 0.12 mg/L	Fish	96 hours
Conclusion/Summary <u>Biodegradability</u>	:	Not available.			
Conclusion/Summary Other adverse effects Products of degradation	-	Not available. No known significant effects o Some metallic oxides.	or critical hazards.		

### 13. Disposal considerations

Waste disposal	: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Disposal of packaging materials	: Contaminated packaging material should be disposed of in the same manner as the product itself. Non-contaminated or clean packaging material, should be reused for the same product, treated as domestic waste, or material for recycling.

Consult your local or regional authorities.

#### 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	-	-			
TDG Classification	Not regulated.	-	-			
ADR/RID Class	Not regulated.	-	-			
IMDG Class	Not regulated.	-	-			
IATA-DGR Class	Not regulated.	-	-			

**Additional information** 

: This material has been tested under UN criteria and found not to be flammable and therefore, not to meet the definition of a hazard class 4 for transport.

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## 15. Regulatory information

HCS Classification       : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).         U.S. Federal regulations       : TSCA 8(b) inventory: All the ingredients are on the TSCA list.         SARA 302/304 (2017)1412 extremely hazardous substances: No products were found.       SARA 302/304 (2017)1412 extremely hazardous chemicals: Aluminium powder; Silicon         SARA 302/304 (2017)1412 hazardous chemicals: Aluminium powder; Silicon       SARA 302/304 (2017)1412 hazardous chemicals: Aluminium powder; Silicon         SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Aluminium powder; Fire hazard, reactive; Silicon: Fire hazard, Immediate (acute) health hazard         Clean Water Act (CWA) 307: No products were found.         Clean Water Act (CAA) 112 regulated fammable substances: No products were found.         Clean Air Act (CAA) 112 regulated toxic substances: No products were found.         Clean Air Act (CAA) 112 regulated toxic substances: No products were found.         State regulations       : Aluminium powder       7429-90-5       53         State regulations       : Connecticut Carcinogen Reporting: None of the components are listed.       Illinois Chemical Safety Act: None of the components are listed.         Illinois Chemical Safety Act: None of the components are listed.       Illinois Chemical Safety Act: None of the components are listed.         Usisiana Split: None of the components are listed.       Massachusetts Substances: The following components are listed.	United States					
SARA 302/304/311/312 extremely hazardous substances: No products were found.         SARA 302/304 emergency planning and notification. No products were found.         SARA 302/304/311/312 bazardous chemicas: Aluminium powder: Silicon:         SARA 311/312 MSDS distribution - chemical inventory - hazard identification:         Aluminium powder: Fire hazard, reactive; Silicon: Fire hazard, Immediate (acute) health hazard         Clean Water Act (CWA) 307: No products were found.         Clean Air Act (CAA) 112 accidental release prevention: No products were found.         Clean Air Act (CAA) 112 regulated flammable substances: No products were found.         Clean Air Act (CAA) 112 regulated toxic substances: No products were found.         Clean Air Act (CAA) 112 regulated toxic substances: No products were found.         Clean Air Act (CAA) 112 regulated toxic substances: No products were found.         Clean Air Act (CAA) 112 regulated toxic substances: No products were found.         SARA 313       Ingredient name       CAS Number         Form R - Reporting       requirements       Sara         Supplier notification       : Aluminium powder       7429-90-5       53         State regulations       : Connecticut Carcinogen Reporting: None of the components are listed.       Illinois Chemical Safety Act: None of the components are listed.         Illinois Chemical Safety Act: None of the components are listed.       Louisiana Reporting: None of the components are listed.		:		s by the OSHA Hazard Commur	nication Standard	
SARA 302/304 emergency planning and notification: No products were found.         SARA 302/304/311/312 hazardous chemicals: Aluminium powder: Silicon         SARA 311/312 MSDS distribution - chemical inventory - hazard identification:         Aluminium powder: Fire hazard, reactive; Silicon: Fire hazard, Immediate (acute) health         hazard         Clean Water Act (CWA) 307: No products were found.         Clean Water Act (CWA) 112 regulated flammable substances: No products were found.         Clean Air Act (CAA) 112 regulated flammable substances: No products were found.         Clean Air Act (CAA) 112 regulated flammable substances: No products were found.         Clean Air Act (CAA) 112 regulated flammable substances: No products were found.         Clean Air Act (CAA) 112 regulated flammable substances: No products were found.         Clean Air Act (CAA) 112 regulated flammable substances: No products were found.         SARA 313         Ingredient name       CAS Number         regulations       : Aluminium powder         State regulations       : Connecticut Carcinogen Reporting: None of the components are listed.         Illinois Chemical Safety Act: None of the components are listed.       Illinois Coustances: None of the components are listed.         Illinois Coustances Disclosure to Employee Act: None of the components are listed.       Louisiana Spill: None of the components are listed.         Louisiana Spill: None of the components are listed.       Ma	U.S. Federal regulations	:	TSCA 8(b) inventory: All the ingredier	nts are on the TSCA list.		
Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found.         SARA 313       Ingredient name requirements       CAS Number 7429-90-5       Concentration 53         Supplier notification       : Aluminium powder       7429-90-5       53         State regulations       : Connecticut Carcinogen Reporting: None of the components are listed. Connecticut Hazardous Material Survey: None of the components are listed. Illinois Chemical Safety Act: None of the components are listed. Illinois Chemical Safety Act: None of the components are listed. Unisiana Reporting: None of the components are listed. Louisiana Spill: None of the components are listed. Louisiana Spill: None of the components are listed. Massachusetts Substances: The following components are listed. Messachusetts Substances: None of the components are listed. Mew Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New York Acutely Hazardous Substances: The following components are listed. New York Toxic Chemical Release Reporting: None of the components are listed. New York Toxic Chemical Release Reporting Components are listed. New York Toxic Chemical Release Repo			<ul> <li>SARA 302/304 emergency planning and notification: No products were found.</li> <li>SARA 302/304/311/312 hazardous chemicals: Aluminium powder; Silicon</li> <li>SARA 311/312 MSDS distribution - chemical inventory - hazard identification:</li> <li>Aluminium powder: Fire hazard, reactive; Silicon: Fire hazard, Immediate (acute) health</li> </ul>			
Clean Air Act (CAA) 112 accidental release prevention: No products were found.         Clean Air Act (CAA) 112 regulated flammable substances: No products were found.         Clean Air Act (CAA) 112 regulated flammable substances: No products were found.         SARA 313         Ingredient name requirements       CAS Number 7429-90-5       Concentration 53         Supplier notification       :       Aluminium powder       7429-90-5       53         State regulations       :       Connecticut Carcinogen Reporting: None of the components are listed. Connecticut Hazardous Material Survey: None of the components are listed. Illinois Chemical Safety Act: None of the components are listed. Illinois Toxic Substances: None of the components are listed. Louisiana Reporting: None of the components are listed. Louisiana Spill: None of the components are listed. Louisiana Spill: None of the components are listed. Massachusetts Spill: None of the components are listed. Minnesota Hazardous Substances: The following components are listed. New Jersey Plazardous Substances: None of the components are listed. New Jersey Spill: None of the components are listed. Minnesota Hazardous Substances: None of the components are listed. New Jersey Spill: None of the components are listed. New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New York Acutely Hazardous Substances: None of the components are listed. New York Toxic Chemical Release R			Clean Water Act (CWA) 307: No pro	ducts were found.		
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	WHMIS (Canada)		All the ingredients are on the DSL list		information.	

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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#### 16. Other information

#### **Label requirements**

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: Warning!
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CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN, EYE, LENS OR CORNEA.

National Fire Protection Association (U.S.A.)	: Health 2 D Instability Special
Date of issue	: 6/26/2007.
Date of previous issue	: 4/10/2006.
Version	: 2.02
Notice to reader	

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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