

# **Safety Data Sheet**

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

### **SECTION 1: Identification**

#### 1.1. Product identifier

Attest<sup>TM</sup> Steam Chemical Integrator 1243RE

#### **Product Identification Numbers**

70-2011-7635-4 70-2011-7636-2

#### 1.2. Recommended use and restrictions on use

#### Recommended use

To indicate conditions for steam sterilisation.

For Industrial or Professional use only

### 1.3. Supplier's details

Address: 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland

**Telephone:** (09) 477 4040

**E Mail:** innovation@nz.mmm.com

Website: 3m.co.nz

### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

### **SECTION 2: Hazard identification**

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

### 2.1. Classification of the substance or mixture

GHS	HSNO
Acute Toxicity (oral): Category 5	6.1E Acute toxicity (oral)
Acute Aquatic Toxicity: Category 2	9.1D Aquatic toxicity (acute)
Chronic Aquatic Toxicity: Category 3	9.1C Aquatic toxicity (chronic)

# 2.2. Label elements

### SIGNAL WORD

WARNING!

#### **Symbols:**

Not applicable.

### **HAZARD STATEMENTS:**

H303 May be harmful if swallowed.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

**Response:** 

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

Disposal:

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

# **SECTION 3: Composition/information on ingredients**

Ingredient	CAS Nbr	% by Weight
Paper	Mixture	55 - 65
Acrylate Adhesive	Trade Secret	35 - 45
Aluminium	7429-90-5	< 1
Polypropylene	9003-07-0	< 1
Inks	Mixture	< 0.1
Coatings	Mixture	< 0.01

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### Inhalation

No need for first aid is anticipated.

#### Skin contact

No need for first aid is anticipated. If signs/symptoms persist, get medical attention.

#### Eye contact

No need for first aid is anticipated.

### If swallowed

Rinse mouth. If you feel unwell, get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1 Information on toxicological effects

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

# **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### **Hazardous Decomposition or By-Products**

**Substance** 

Carbon monoxide.
Carbon dioxide.

**Condition** 

During combustion.

During combustion.

#### 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**5.4. Hazchem code:** Not applicable.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

Refer to Section 15 - Controls for more information

### 7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

### 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

### 7.3. Certified handler

Not required

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

# Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available

for the component.

Ingredient **CAS Nbr** Limit type **Additional comments** Agency TWA(respirable fraction):1 Aluminium 7429-90-5 **ACGIH** A4: Not class. as human mg/m3 carcinogin Aluminium 7429-90-5 New Zealand TWA(Al, welding fume)(8 WES hours):5 mg/m3;TWA(as Al pyrophoric powder)(8 hours):5 mg/m3;TWA(as Al, dust)(8 hours):10 mg/m3;TWA(as Al)(8 hours):2 mg/m3 Copper compounds Mixture **ACGIH** TWA(as Cu, fume):0.2 mg/m3;TWA(as Cu dust or

mist):1 mg/m3

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines New Zealand WES: New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

### Eye/face protection

Eye protection not required.

#### Skin/hand protection

No chemical protective gloves are required.

### Respiratory protection

None required.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state	Solid.		
Specific Physical Form:	Attest Steam Chemical Integrator		
Colour	Blue, White		
Odour	Nearly Odourless		
Odour threshold	No data available.		
рН	No data available.		
Melting point/Freezing point	No data available.		
Boiling point/Initial boiling point/Boiling range	Not applicable.		
Flash point	260 °C [Test Method:Closed Cup] [Details:>500F]		
Evaporation rate	Not applicable.		
Flammability (solid, gas)	Not classified		
Flammable Limits(LEL)	Not applicable.		

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Flammable Limits(UEL)	Not applicable.		
Vapour pressure	No data available.		
Vapor Density and/or Relative Vapor Density	No data available.		
Density	No data available.		
Relative density	1 [Ref Std:WATER=1]		
Water solubility	Nil		
Solubility- non-water	No data available.		
Partition coefficient: n-octanol/water	No data available.		
Autoignition temperature	No data available.		
Decomposition temperature	No data available.		
Viscosity/Kinematic Viscosity	No data available.		
Volatile organic compounds (VOC)			
Percent volatile			
VOC less H2O & exempt solvents			
Molecular weight	No data available.		

### **Nanoparticles**

This material contains nanoparticles.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

This material is considered to be non reactive under normal use conditions

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

None known.

### 10.5 Incompatible materials

None known.

#### 10.6 Hazardous decomposition products

Substance
None known.

Condition

Refer to Section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

### Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation

No known health effects.

#### Skin contact

Contact with the skin during product use is not expected to result in significant irritation.

### Eye contact

Contact with the eyes during product use is not expected to result in significant irritation.

#### Ingestion

May be harmful if swallowed.

### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### **Acute Toxicity**

Name	Route	Species	Value		
Overall product	Ingestion		No data available; calculated ATE2,000 - 5,000 mg/kg		
Acrylate Adhesive	Dermal		LD50 estimated to be > 5,000 mg/kg		
Acrylate Adhesive	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg		
Aluminium	Dermal		LD50 estimated to be > 5,000 mg/kg		
Aluminium	Ingestion		LD50 estimated to be > 5,000 mg/kg		
Aluminium	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 0.888 mg/l		
Polypropylene	Dermal		LD50 estimated to be > 5,000 mg/kg		
Polypropylene	Ingestion	Mouse	LD50 > 8,000 mg/kg		
Inks	Dermal		LD50 estimated to be > 5,000 mg/kg		
Inks	Ingestion	Rat	LD50 10,000 mg/kg		

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Skiii Corrosion/irritation		
Name	Species	Value
Acrylate Adhesive	Professio	No significant irritation
	nal	
	judgemen	
	t	
Aluminium	Rabbit	No significant irritation
Polypropylene	Human	No significant irritation
	and	
	animal	
Inks	Rabbit	No significant irritation

### Serious Eye Damage/Irritation

Name	Species	Value
Aluminium	Rabbit	No significant irritation
Polypropylene	Professio	No significant irritation
	nal	
	judgemen	
	t	
Inks	Rabbit	No significant irritation

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### **Sensitisation:**

#### **Skin Sensitisation**

Name	Species	Value
Acrylate Adhesive	Professio nal judgemen t	Not classified
Aluminium	Guinea pig	Not classified
Polypropylene	Human and animal	Not classified
Inks	Human	Not classified

**Respiratory Sensitisation** 

Name	Species	Value
Aluminium	Human	Not classified

**Germ Cell Mutagenicity** 

Name	Route	Value
Aluminium	In Vitro	Not mutagenic
Polypropylene	In Vitro	Not mutagenic
Inks	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value	
Polypropylene	Not	Not Rat Some positive data exist, but the data are no		
	specified.	fied. sufficient for classification		
Inks	Ingestion	Mouse	Not carcinogenic	

### **Reproductive Toxicity**

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Inks	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Inks	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	42 days
Inks	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation

### Target Organ(s)

# **Specific Target Organ Toxicity - single exposure**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Aluminium	Inhalation	nervous system	Not classified	Human	NOAEL Not	occupational
		respiratory system			available	exposure
Inks	Ingestion	endocrine system	Not classified	Rat	NOAEL	28 days

		hematopoietic system   respiratory system			1,000 mg/kg/day	
Inks	Ingestion	kidney and/or bladder	Not classified	Multiple animal species	NOAEL Not available	not available

#### **Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient—is present below the threshold for labelling, an ingredient—is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

#### 12.1. Toxicity

#### Ecotoxic to the aquatic environment.

Acute Aquatic Toxicity: Category 2 (HSNO 9.1D Aquatic toxicity) Chronic Aquatic Toxicity: Category 3 (HSNO 9.1C Aquatic toxicity)

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Acrylate Adhesive	Trade Secret		Data not available or			
			insufficient for classification			
Aluminium	7429-90-5	Fish other	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Aluminium	7429-90-5	Green Algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
Aluminium	7429-90-5	Water flea	Experimental	48 hours	No tox obs at lmt of water sol	>100 mg/l
Aluminium	7429-90-5	Green Algae	Experimental	72 hours	No tox obs at lmt of water sol	100 mg/l
Aluminium	7429-90-5	Water flea	Experimental	21 days	NOEC	0.076 mg/l
Polypropylene	9003-07-0		Data not available or insufficient for classification			
Inks	Mixture	Green algae	Estimated	72 hours	EC50	>100 mg/l
Inks	Mixture	Water flea	Estimated	48 hours	EC50	>500 mg/l
Inks	Mixture	Rainbow trout	Experimental	96 hours	LC50	355.6 mg/l
Inks	Mixture	Green algae	Estimated	72 hours	Effect Concentration 10%	>100 mg/l
Inks	Mixture	Water flea	Estimated	21 days	NOEC	>=1 mg/l

### 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Acrylate	Trade Secret	Data not			N/A	
Adhesive		availbl-				
		insufficient				
Aluminium	7429-90-5	Data not			N/A	
		availbl-				
		insufficient				
Polypropylene	9003-07-0	Data not			N/A	
		availbl-				
		insufficient				
Inks	Mixture	Experimental	28 days	BOD	<1 % weight	OECD 301F -
		Biodegradation				Manometric
						respirometry

### 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Acrylate	Trade Secret	Data not	N/A	N/A	N/A	N/A
Adhesive		available or				
		insufficient for				
		classification				
Aluminium	7429-90-5	Data not	N/A	N/A	N/A	N/A
		available or				
		insufficient for				
		classification				
Polypropylene	9003-07-0	Data not	N/A	N/A	N/A	N/A
		available or				
		insufficient for				
		classification				
Inks	Mixture	Experimental	42 days	Bioaccumulatio	<3.6	OECD 305E -
		BCF-Carp	-	n factor		Bioaccumulation flow-
						through fish test

#### 12.4. Mobility in soil

Please contact manufacturer for more details

#### 12.5 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

# **SECTION 14: Transport Information**

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

Hazchem Code: Not applicable.

**IERG:** Not applicable.

International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Marine Pollutant: Not applicable.

### **SECTION 15: Regulatory information**

HSNO Approval number HSR002647

Group standard name Reagent Kits Group Standard 2017 HSNO Hazard classification Refer to Section 2: Hazard identification

### NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

#### Controls in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 2017

Certified handler Not required

Location Compliance Certificate For HSNO 3.1C substances 1,500 L (closed containers up to and including 5

L)

Hazardous atmosphere zone For HSNO 3.1B and 3.1C substances 100 L (closed containers) Fire extinguishers For HSNO 3.1C and 3.1D substances. Two required for 500 L

Emergency response plan 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a

HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO 3.1C, 3.1D, 9.1D, 8.2C, 8.3A, 6.7B, or 6.9A substance)

Secondary containment 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a

HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg

(for a HSNO 3.1C, 3.1D, 9.1D, 8.2C, 8.3A, 6.7B, or 6.9A substance)

Tracking Not required

Warning signage 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a

HSNO 3.1C, 8.1A, 8.2C 8.3A, 9.1B or 9.1C substance); or 10,000 L or 10,000

kg (for 3.1D, 6.1D or 9.1D substance)

# **SECTION 16: Other information**

#### **Revision information:**

Additional Stock number

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#### Key to abbreviations and acronyms

GHS means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013 HSNO means Hazardous Substances and New Organisms Act 1996

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