

P120-08-025 Issue: C Date: Apr 10

Page 1 of 6

# PRODUCT NAME: C250Y AND C250JV CARTRIDGES, (Unused)

# 1. Product and Company Identification

C250Y and C250JV Cartridges, Unused Product name:

Synonyms: None

Item Numbers: C250Y: Pack of 2 = A22304322, Pack of 4 = A22304324

C250JV: Pack of 2 = A22304342, Pack of 4 = A22304343

The information in the data sheet refers to an unused cartridge as supplied by Edwards. Refer to the relevant product manual for information on the handling, disposal, etc. of used cartridges.

### **European Contact Details**

Edwards, Manor Royal, Crawley West Sussex, RH10 9LW, England Email: info@edwardsvacuum.com

General enquiries

UK: +44 (0)1293 528844 France: +(33) 1 47 98 24 01 Germany: +(49) 6420-82-410 Italy: +(39) 0248-4471

#### **US Contact Details**

Edwards, Three Highwood Drive, Suite 3-10E, Highwood Office Park, Tewksbury, MA 01876

General enquiries +(1) 978-658-5410

Toll Free: 1-800-848-9800

24 h Emergency telephone number:

Chemtrec: 1-800-424-9300

#### 2. Hazards Identification

## **EMERGENCY OVERVIEW**

The cartridges, when properly handled according to good working and hygienic practices, is not dangerous to human health and the environment.

For short and long term exposure effects, refer to Section 11 Toxicological Information.

Eye Effects: None in normal use. Contact with catalytic granules/dust may cause severe eye irritation

and damage the eyes.\*

Skin Effects: None in normal use. Contact with catalytic granules/dust may cause severe skin irritation

and damage the skin.\*

Ingestion/Oral Effects: None in normal use. Ingestion of catalytic granules/dust may cause severe irritation and

damage to the mouth, throat and digestive tract.\*

Inhalation Effects: None in normal use. Inhalation of catalytic granules/dust may cause severe respiratory

irritation and damage the respiratory tract.\*

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

DCC1 No: 705

<sup>\*</sup> Contact with granules can only occur if the cartridge is damaged or opened. The granules are basic in nature.



P120-08-025 Issue: C Date: Apr 10

Page 2 of 6

# PRODUCT NAME: C250Y AND C250JV CARTRIDGES, (Unused)

NFPA Hazard codes		HMIS Hazard codes		Rating System	
Health	0	Health	0	0 = No Hazard	
Flammability	0	Flammability	0	1 = Slight Hazard	
Instability	0	Reactivity	0	2 = Moderate Hazard	
				3 = Serious Hazard	
				4 = Severe Hazard	

## 3. Composition/Information on Ingredients

Each cartridge comprises a proprietary mixture of catalytic granules, sealed within a stainless steel welded vessel. Note that heater elements are also included within the vessel.

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase*
Granules	70%	Not allocated	Not applicable	Not applicable
Stainless Steel	30%	Not allocated	Not applicable	Not applicable

<sup>\*</sup>Hazard class & Risk phrase. These columns are only completed for ingredients which are classified as hazardous under EU Directive No 1272/2008 (as amended) and are present in sufficient concentration to make the overall substance hazardous. In all other situations, the column will be completed as "Not applicable".

## 4. First Aid Measures

Eyes: No effects requiring first aid are expected during normal use. In case of contact with granules/

dust, flush the eyes with plenty of water. If irritation arises, seek medical attention.

Skin: No effects requiring first aid are expected during normal use. In case of contact with granules/

dust, wash the skin with plenty of water. If irritation arises, seek medical attention.

Ingestion/Oral: No effects requiring first aid are expected during normal use. In case of ingestion of granules/

dust, wash out the mouth with plenty of water and immediately seek medical attention. Do

not induce vomiting. Never give anything by mouth to an unconscious person.

Inhalation: No effects requiring first aid are expected during normal use. In case of inhalation of granules/

> dust, remove the patient to fresh air. If breathing problems arise, a suitably qualified individual should administer oxygen or artificial respiration as necessary; seek immediate

medical attention.

Other Information: None.



P120-08-025 Issue: C Date: Apr 10 Page 3 of 6

# PRODUCT NAME: C250Y AND C250JV CARTRIDGES, (Unused)

# 5. Firefighting Measures

Extinguishing Media: Not applicable (Cartridge does not contain combustible substances).

Fire and Explosion Hazard: None.

Special Protective Equipment

Not applicable.

for Firefighters:

For Flammability Properties - refer to Section 9.

#### 6. Accidental Release Measures

Accidental spillage is not possible because active ingredients are sealed within a welded stainless steel container.

## 7. Handling and Storage

Handling: There are no special chemical handling requirements because active ingredients are sealed

within the cartridge.

The cartridge is heavy and a suitable mechanical lifting aid must be used to lift it safely.

Storage: Store in a dry, well ventilated space.

# 8. Exposure Controls/Personal Protection

## **Exposure Limits:**

Ingredient	ACGIH - TLV	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
None	Not applicable	Not applicable	Not applicable

#### **Personal Protection:**

**Engineering Measures:** Suitable mechanical lifting aids are necessary to safely lift a cartridge. Eye/skin

washing facilities should be provided where there is the possibility of contact

with granules/dust.

**Respiratory Protection:** None needed during normal use.\*

Hand/Skin Protection: None needed during normal use.\*

Eye/Face Protection: None needed during normal use.\*

Hygiene Measures: Practice good workplace hygiene. Do not eat or smoke when handling.

Wash hands after use and before eating.

Other/General Protection: \* If a cartridge is to be cut open or changed, basic respiratory protection, eye

protection and impervious gloves should be used.



P120-08-025 Issue: C Date: Apr 10 Page 4 of 6

# PRODUCT NAME: C250Y AND C250JV CARTRIDGES, (Unused)

# 9. Physical and Chemical Properties

Appearance and Odour	Stainless steel cylinder. No odour	Boiling Point	Granules-2860/5150	°C/°F
pH (as supplied)	Granules-12.2-12.4	Freezing Point	Granules-2614/4707	°C/°F
Solubility in Water	Basic oxide granules - almost insoluble	Auto Ignition	Not applicable	°C/°F
Volatile Content by Volume	Not applicable	Flash Point	Not applicable	°C/°F
Specific Gravity	No data available			
Vapour Pressure (mbar) Not applicable		Vapour Pressure (Torr)	Not applicable	

## 10. Stability and Reactivity

Stability: Stable.

Material/Conditions to Avoid: Moist /wet conditions.

Hazardous Decomposition: None.

Hazardous Polymerisation: Will not occur.

## 11. Toxicological Information

For a comprehensive description of the various toxicological (health) effects which may arise if the user comes into contact with the substance or preparation, refer to Section 2 Hazards Identification.

#### Animal data:

LD50 value: Not applicable.

LC50 value: Not applicable.

### Carcinogenicity:

No known carcinogenic effects.

## 12. Ecological Information

No information available.

## 13. Disposal Considerations

Used cartridges are non hazardous. They are suitable for landfill or recycling. Contact your local Edwards office for specific advice for your territory.



P120-08-025 Issue: C Date: Apr 10 Page 5 of 6

# PRODUCT NAME: C250Y AND C250JV CARTRIDGES, (Unused)

## 14. Transport Information

This product is not classified as dangerous under transport regulations.

PARAMETER	EUROPEAN	CANADIAN TDG	UNITED STATES DOT
Proper Shipping Name	Not applicable	Not applicable	Not applicable
Hazard Class	Not applicable	Not applicable	Not applicable
Identification Number	Not applicable	Not applicable	Not applicable
Shipping Label	Not applicable	Not applicable	Not applicable

# 15. Regulatory Information

## **European Regulatory Information**

This product has been classified in accordance with EU Regulation No 1272/2008 (as amended) on the Classification, Labelling and Packaging of Substances and Mixtures.

Classified as dangerous to supply: No.

Risk Phrases: Not applicable. Safety Phrases: Not applicable.

Symbols: None.

## **United States Regulatory Information**

Product is a manufactured article not subject to TSCA listing.

SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION:

This product constitutes an "article" and, as such is exempt from SARA 313 REPORTING REQUIREMENTS (40 CFR Part 372.38, Paragraph B).

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

OSHA Regulatory Status: Under normal conditions and use, this product is not classified as hazardous by OSHA regulations.

### **Canadian Regulatory Information**

Product is a manufactured item not subject to DSL listing.

WHMIS Classification: Not applicable.



P120-08-025 Issue: C Date: Apr 10

Page 6 of 6

# PRODUCT NAME: C250Y AND C250JV CARTRIDGES, (Unused)

### 16. Other Information

This MSDS is compiled in accordance with ANSI Z400.1 and Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### Glossary:

ACGIH - American Conference of Governmental Industrial Hygienists; ANSI - American National Standards Institute; Canadian TDG - Canadian Transportation of Dangerous Goods; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations; Chemtrec - Chemical Transportation Emergency Center (US); CHIP - Chemical (Hazard Information and Packing); DSL - Domestic Substances List; EEC - European Economic Community; EH40 (UK) - HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA - Emergency Planning and Community Right-to-Know Act; EU - European Union; HMIS - Hazardous Material Information Service; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; NTP - National Toxicology Program; OSHA - Occupational Safety and Health Administration, US Department of Labour; PEL - Permissible Exposure Limit; SARA (Title III) - Superfund Amendments and Reauthorization Act; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; TLV - Threshold Limit Value; TSCA -Toxic Substances Control Act Public Law 94-469; US DOT - US Department of Transportation; WHMIS - Workplace Hazardous Materials Information System.

#### **Revisions:**

April 2010 - Data Sheet updated to reflect the latest supplier safety information and the latest regulatory information.

Although the information and recommendations in this data sheet are to the best of our knowledge correct, it is recommended that you make your own determination of the material's suitability for your purpose before you use it. The information contained in this data sheet has been reproduced from the manufacturers' data; the accuracy of this information is the responsibility of the manufacturer. Edwards accept no responsibility for damage of any nature resulting from the use of, or the reliance upon, this data sheet.