MATERION

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or CIROM IRX

designation of the mixture

Registration number

Document number1ZWSynonymsNone.Materion Code1ZW

Issue date 19-June-2015 **Revision date** 30-March-2020

1.3. Details of the supplier of the safety data sheet

Supplier

Company name Materion Advanced Chemicals Inc.

Address 407 N. 13th Street

1316 W. St. Paul Avenue Milwaukee, WI 53233

United States

Division Milwaukee **Telephone** 414.212.0257

e-mail advancedmaterials@materion.com

Contact person Laura Hamilton

1.4. Emergency telephone

number

Supersedes date 15-January-2018

Version number 03

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified usesNot available.Uses advised againstNone known.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, oral Category 4 H302 - Harmful if swallowed.
Acute toxicity, inhalation Category 4 H332 - Harmful if inhaled.

Hazard summary Harmful if inhaled. Harmful if swallowed. Occupational exposure to the substance or mixture may

cause adverse health effects. The material as sold in solid form is generally not considered hazardous. However, if the process involves grinding, melting, cutting or any other process that causes a release of dust or fumes, hazardous levels of airborne particulate could be generated.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: TRADE SECRET

Hazard pictograms



Signal word Warning

Hazard statements

H302 Harmful if swallowed. H332 Harmful if inhaled.

Material name: CIROM IRX SDS EU

Precautionary statements

Prevention

P261 Avoid breathing dust.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.

P330 Rinse mouth.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Storage Store away from incompatible materials.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information

 $90\ \%$ of the mixture consists of component(s) of unknown acute oral toxicity. $90\ \%$ of the mixture

consists of component(s) of unknown acute oral toxicity.

For further information, please contact the Product Stewardship Department at +1.800.862.4118.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
TRADE SECRET	≤ 90	Proprietary -	-	-	#
Classification:	Skin Irrit. 2;H315, Eye Ir RE 2;H373	rit. 2;H319, STOT	SE 3;H335, Repr. 2;H361, Lac	t.;H362, STOT	
TRADE SECRET	≤ 10	Proprietary -	-	-	
Classification:	Acute Tox. 3;H301, Acut 3;H335, Repr. 2;H361, S		e Irrit. 2;H319, Acute Tox. 4;H	1332, STOT SE	1,A

List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

#: This substance has been assigned Union workplace exposure limit(s).

#: This substance has been assigned Community workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

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

Composition commentsThe full text for all R- and H-phrases is displayed in section 16. The full text for all H-statements is

displayed in section 16.

SECTION 4: First aid measures

General information Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Call a poison centre or doctor/physician if you feel unwell.

Skin contactRinse with water. **Eye contact**Do not rub eyes.

Ingestion If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical

advice/attention if you feel unwell.

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

Direct contact with eyes may cause temporary irritation.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

Material name: CIROM IRX

SECTION 5: Firefighting measures

General fire hazards

No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special firefighting

Move containers from fire area if you can do so without risk.

procedures
Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders

Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual

contamination.

recovery, flush area with water.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Minimise dust generation and accumulation. Do not taste or swallow. Avoid breathing dust. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a

well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after

handling.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible

materials (see Section 10 of the SDS).

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria	MAK List	OFI	Ordinance ((GwV)	BGRL II	no.	184	/2001
Ausu ia.	INAN LIST	OLL	Orumanice i	G 44 4 1.	, DODI: II	, IIV.	TOT	/ Z UUI

Components	Type	Value	Form
TRADE SECRET	MAK	2,5 mg/m3	Inhalable fraction.
	STEL	12,5 mg/m3	Inhalable fraction.

Material name: CIROM IRX SDS EU

Belgium. Exposure Limit Values. Components	Туре	Value
TRADE SECRET	TWA	2,5 mg/m3
Bulgaria. OELs. Regulation No 13 on Components	protection of workers ag Type	ainst risks of exposure to chemical agents at work Value
FRADE SECRET	TWA	2,5 mg/m3
	sure Limit Values in the V	Orkplace (ELVs), Annexes 1 and 2, Narodne Novine
13/09 Components	Туре	Value
TRADE SECRET	MAC	2,5 mg/m3
Czech Republic. OELs. Government I	Decree 361	
Components	Туре	Value
TRADE SECRET	Ceiling	5 mg/m3
	TWA	2,5 mg/m3
Denmark. Exposure Limit Values		
Components	Туре	Value
FRADE SECRET	TLV	2,5 mg/m3
	re Limits of Hazardous Su	bstances. (Annex of Regulation No. 293 of 18
September 2001) Components	Туре	Value
TRADE SECRET	TWA	2,5 mg/m3
Finland. Workplace Exposure Limits		2,59,5
Components	Туре	Value
TRADE SECRET	TWA	2,5 mg/m3
France. Threshold Limit Values (VLE	P) for Occupational Expo	sure to Chemicals in France, INRS ED 984
Components	Туре	Value
TRADE SECRET	VME	2,5 mg/m3
Hungary. OELs. Joint Decree on Che		
Components	Туре	Value
TRADE SECRET	STEL	10 mg/m3
		10 mg/m3
	TWA	2,5 mg/m3
Iceland. OELs. Regulation 154/1999 Components	on occupational exposur Type	e limits Value
TRADE SECRET	TWA	0,6 mg/m3
TRADE SECRET	IVVA	, 3.
		substances in work environment Value
Components	e limit values of chemical Type STEL	
Components	Туре	Value
Components	Туре	Value 2,5 mg/m3
Components	Type STEL	Value 2,5 mg/m3 1 mg/m3
TRADE SECRET	Type STEL TWA	Value 2,5 mg/m3 1 mg/m3 0,5 mg/m3 0,1 mg/m3
Components TRADE SECRET Lithuania. OELs. Limit Values for Ch	Type STEL TWA	Value 2,5 mg/m3 1 mg/m3 0,5 mg/m3 0,1 mg/m3
Components TRADE SECRET Lithuania. OELs. Limit Values for Ch Components	Type STEL TWA nemical Substances, Gene	Value 2,5 mg/m3 1 mg/m3 0,5 mg/m3 0,1 mg/m3 ral Requirements
Components TRADE SECRET Lithuania. OELs. Limit Values for Ch Components	Type STEL TWA memical Substances, Gene Type	Value 2,5 mg/m3 1 mg/m3 0,5 mg/m3 0,1 mg/m3 ral Requirements Value
Components TRADE SECRET Lithuania. OELs. Limit Values for Ch Components TRADE SECRET Luxembourg. Binding Occupational of	Type STEL TWA memical Substances, Gene Type STEL TWA exposure limit values (An	Value 2,5 mg/m3 1 mg/m3 0,5 mg/m3 0,1 mg/m3 ral Requirements Value 2,5 mg/m3 0,5 mg/m3 nex I), Memorial A
Latvia. OELs. Occupational exposure Components TRADE SECRET Lithuania. OELs. Limit Values for Ch Components TRADE SECRET Luxembourg. Binding Occupational occupance Components TRADE SECRET	Type STEL TWA memical Substances, Gene Type STEL TWA	Value 2,5 mg/m3 1 mg/m3 0,5 mg/m3 0,1 mg/m3 ral Requirements Value 2,5 mg/m3 0,5 mg/m3

Material name: CIROM IRX SDS EU

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

Components	Туре	Value		
TRADE SECRET	TWA	2,5 mg/m3	2,5 mg/m3	
Netherlands. OELs (binding)			
Components	Туре	Value		
TRADE SECRET	STEL	2 mg/m3		
		2 mg/m3		
	TWA	0,5 mg/m3		
Norway. Administrative No	ms for Contaminants in the Wor	kplace		
Components	Туре	Value		
TRADE SECRET	TLV	0,5 mg/m3		
——————————————————————————————————————	n. 290/2001 (Journal of the Rep	public - 1 Series A, n.266)		
Components	Туре	Value		
TRADE SECRET	TWA	2,5 mg/m3		
-	cupational exposure to chemical	-		
Components	Туре	Value		
TRADE SECRET	TWA	2,5 mg/m3		
Romania. OELs. Protection of Components	of workers from exposure to che Type	mical agents at the workp Value	lace	
TRADE SECRET	TWA	2,5 mg/m3		
Slovakia. OELs. Regulation Components	No. 300/2007 concerning protec Type	tion of health in work with Value	chemical agents	
TRADE SECRET	TWA	2,5 mg/m3		
Spain. Occupational Exposu				
Components	Туре	Value		
TRADE SECRET	TWA	2,5 mg/m3		
Sweden. OELs. Work Enviro Components	nment Authority (AV), Occupation Type	onal Exposure Limit Values Value	(AFS 2015:7)	
TRADE SECRET	TWA	2 mg/m3		
Switzerland. SUVA Grenzwe	erte am Arbeitsplatz			
Components	Туре	Value	Form	
TRADE SECRET	STEL	4 mg/m3	Inhalable dust	
	TWA	1 mg/m3	Inhalable dust	
UK. EH40 Workplace Exposi Components	ure Limits (WELs) Type	Value		
TRADE SECRET	TWA	2,5 mg/m3		
	nit Values in Directives 91/322/E Type	,	5/EC, 2009/161/EU	
TRADE SECRET	TWA	2,5 mg/m3		
I KADE SECKET	IVVA	2,5 mg/m3		

Biological limit values

Czech Republic. Limit Values for Indictators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.

Components	Value	Determinant	Specimen	Sampling Time
TRADE SECRET	60 µmol/mmol	Fluoride	Creatinine in urine	*
	60 µmol/mmol	Fluoride	Creatinine in urine	*
	10 mg/g	Fluoride	Creatinine in urine	*

Material name: CIROM IRX SDS EU

Czech Republic. Limit Values for Indictators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.

Components	Value	Determinant	Specimen	Sampling Time	
	10 mg/g	Fluoride	Creatinine in	*	
			urine		

^{* -} For sampling details, please see the source document.

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)

Components	Value	Determinant	Specimen	Sampling Time	
TRADE SECRET	3 mg/g	Fluorures	Creatinine in urine	*	
	3 mg/g	Fluorures	Creatinine in urine	*	
	10 mg/g	Fluorures	Creatinine in urine	*	
	10 mg/g	Fluorures	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling Time	
TRADE SECRET	7 mg/g	Fluorid	Creatinine in urine	*	
	7 mg/g	Fluorid	Creatinine in urine	*	
	4 mg/g	Fluorid	Creatinine in urine	*	
	4 mg/g	Fluorid	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Components	` Value	Determinant	Specimen	Sampling Time
TRADE SECRET	7 mg/g	fluoride	Creatinine in urine	*
	7 mg/g	fluoride	Creatinine in urine	*
	4 mg/g	fluoride	Creatinine in urine	*
	4 mg/g	fluoride	Creatinine in urine	*
	42 μmol/mmol	fluoride	Creatinine in urine	*
	42 µmol/mmol	fluoride	Creatinine in urine	*
	24 μmol/mmol	fluoride	Creatinine in urine	*
	24 μmol/mmol	fluoride	Creatinine in urine	*

^{* -} For sampling details, please see the source document.

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

Components	Value	Determinant	Specimen	Sampling Time	
TRADE SECRET	7 mg/g	Fluorides	Creatinine in urine	*	
	7 mg/g	Fluorides	Creatinine in urine	*	
	4 mg/g	Fluorides	Creatinine in urine	*	

Material name: CIROM IRX SDS EU

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents. Annex 2

Components	Value	Determinant	Specimen	Sampling Time
	4 mg/g	Fluorides	Creatinine in	*
			urine	

^{* -} For sampling details, please see the source document.

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4					
Components	Value	Determinant	Specimen	Sampling Time	
TRADE SECRET	8 mg/l	Fluoruros	Urine	*	
	8 mg/l	Fluoruros	Urine	*	

^{* -} For sampling details, please see the source document.

Recommended monitoring

Follow standard monitoring procedures.

procedures

Derived no effect levels

(DNELs)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

- **Hand protection** Wear appropriate chemical resistant gloves.

- Other Use of an impervious apron is recommended.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators. Chemical respirator with organic vapour cartridge.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Keep away from food and drink. Always observe good personal hygiene measures, such as washing

after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

Environmental exposure

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

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established, maintain airborne levels to an acceptable level.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical stateSolid.FormSolid.

Colour Not available.

Odour Not available.

Odour threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and Not available.

boiling range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Material name: CIROM IRX SDS EU

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit -

Not available.

upper (%)

0,00001 hPa estimated Vapour pressure

Vapour density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Not available. **Partition coefficient**

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. **Viscosity** Not available. **Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport

Material is stable under normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous

decomposition products

10.4. Conditions to avoid

No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact No adverse effects due to skin contact are expected. **Eve contact** Direct contact with eyes may cause temporary irritation.

Ingestion Harmful if swallowed.

Symptoms Exposure may cause temporary irritation, redness, or discomfort.

11.1. Information on toxicological effects

Acute toxicity In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and

central nervous system effects. Harmful if inhaled. Harmful if swallowed.

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible. Serious eye damage/eye Due to partial or complete lack of data the classification is not possible.

irritation

Respiratory sensitisation Due to partial or complete lack of data the classification is not possible. Skin sensitisation Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible. Carcinogenicity Due to partial or complete lack of data the classification is not possible.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

IARC Monographs. Overall Evaluation of Carcinogenicity

TRADE SECRET (CAS Proprietary) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible. Specific target organ toxicity Due to partial or complete lack of data the classification is not possible.

- single exposure

Material name: CIROM IRX 8 / 10

Specific target organ toxicity

- repeated exposure

Due to partial or complete lack of data the classification is not possible.

Aspiration hazard

Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available.

Other information Not available.

SECTION 12: Ecological information

Due to partial or complete lack of data the classification for hazardous to the aquatic environment, 12.1. Toxicity

is not possible.

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative

potential

No data available.

Partition coefficient

n-octanol/water (log Kow)

Not available.

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT and

vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. 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.

12.7. Additional information

Estonia Dangerous substances in groundwater Data

TRADE SECRET (CAS Proprietary) TRADE SECRET INGREDIENT(S)

Estonia Dangerous substances in soil Data

TRADE SECRET (CAS Proprietary) TRADE SECRET INGREDIENT(S)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. 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.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

EU regulations

Material name: CIROM IRX SDS FU

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

TRADE SECRET (CAS Proprietary)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC)

No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviationsNot available. **References**Not available.

Training information Follow training instructions when handling this material.

Disclaimer Materion Advanced Chemicals Inc. cannot anticipate all conditions

Materion Advanced Chemicals Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the

product, and to assume liability for loss, injury, damage or expense due to improper use.

This document has been prepared using data from sources considered to be technically reliable and

the information is believed to be correct. Materion makes no warranties, expressed or implied, as to the accuracy of the information contained herein. Materion cannot anticipate all conditions under which this information and its products may be used and the actual conditions of use are beyond its control. The user is responsible to evaluate all available information when using this product for any particular use and to comply with all Federal, State, Provincial and Local laws, statutes and

regulations.

Material name: CIROM IRX