

SAFETY DATA SHEET

AL-J-012-0

Section 1. Identification

Product identifier : AL-J-012-0

Other means of identification

Product name	Classification	Classification	
Blueshield	CSA	AWS	
CRYSTAL 4043	ER4043	ER4043	
CRYSTAL 5356	ER5356	ER5356	
CRYSTAL 4047	ER4047	ER4047	

Product type : Solid.

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

Product use : Covered electrodes for electric arc welding.

Aluminium Wire for GMAW (MIG).

Area of application : Industrial applications, Professional applications.

Supplier/Manufacturer : Air Liquide Canada Inc.

1250, René-Lévesque West, Suite 1700

Montreal, QC H3B 5E6 www.airliquide.ca 1-800-817-7697

Emergency telephone number : (514) 878-1667

Section 2. Hazard identification

Classification of the substance or

mixture

H361 TOXIC TO REPRODUCTION (Fertility) - Category 2

H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system

(CNS) and lungs) - Category 2

GHS label elements

These hazards relate to welding fumes (electrodes in use) and not to the electrodes as sold.

Hazard pictograms :



Signal word : Warning

Hazard statements : H361 - Suspected of damaging fertility.

H373 - May cause damage to organs through prolonged or repeated exposure. (central nervous system

(CNS), lungs)

Precautionary statements

Prevention : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves. Wear eye or face protection: Recommended: Face shield with radiation

shielding.. Wear protective clothing: Recommended: Full suit. Fire resistant..

P260 - Do not breathe dust.

Response : P314 - Get medical attention if you feel unwell.

P308 + P313 - IF exposed or concerned: Get medical attention.

Storage : P405 - Store locked up.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international

regulations.

Supplemental label elements : Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 95%

Other hazards which do not result

in classification

ELECTRIC SHOCK can kill. FUMES AND GASES can be dangerous to your health. ARC RAYS can

injure eyes and burn skin.

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Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

CAS number : Not applicable.

Product code : AL-J-012-0

Ingredient name	% (w/w)	CAS number
Aluminium powder (stabilized)	87 - 98	7429-90-5
silicon	4 - 13	7440-21-3
copper	0.1 - 6	7440-50-8
Magnesium, non flammable solid	0.1 - 5	7439-95-4
manganese	<1.5	7439-96-5
chromium	<0.5	7440-47-3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

The fumes emitted by the electrodes, in use, are hazardous. This SDS is written for workers using these electrodes.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.

Inhalation

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

Skin contact

: 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.

Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

: No specific data.

Inhalation

: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact

: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion

: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

IR LIQUIDE

Section 4. First-aid measures

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been indested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Specific hazards arising from the

: Do not use water jet.

chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

(SCBA) with a full face-piece operated in positive pressure mode.

Special protective actions for firefighters Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

for

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

Special protective equipment for fire-fighters

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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 and materials for containment and cleaning up

Small spill

: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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Section 7. Handling and storage

including any incompatibilities

Store between the following temperatures: 15 to 30°C (59 to 86°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Occupational exposure limits		TWA (8 hours)		STEL (15 mins)		Ceiling					
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Aluminium powder (stabilized)	US ACGIH 3/2015	-	1	-	_	-	_	-	-	_	[a]
' ' '	AB 4/2009	_	10	_	-	-	-	_	_	_	[3] [b]
	BC 5/2015	-	1	_	-	-	-	_	-	_	[c]
	ON 7/2015	-	1	_	-	-	-	_	-	_	[d]
Aluminium powder (stabilized), as Al	QC 1/2014	-	10	-	-	-	-	-	-	-	
Aluminium powder (stabilized), measured as Al	SK 7/2013	-	10	-	-	20	-	-	-	-	[e]
	SK 7/2013	-	5	-	-	10	-	-	-	-	[f]
		-	2	-	-	4	-	-	-	-	
silicon	BC 5/2015	-	3	-	-	-	-	-	-	-	[g]
	BC 5/2015	-	10	-	-	-	-	-	-	-	[h]
	QC 1/2014	-	10	-	-	-	-	-	-	-	[ii]
	SK 7/2013	-	10	-	-	20	-	-	-	-	-
copper, as Cu	US ACGIH 3/2015	-	1	_	-	-	-	_	-	_	Cij
	US ACGIH 3/2015	-	0.2	_	-	-	-	_	-	_	[k]
	AB 4/2009	-	1	_	-	-	-	_	-	_	[ii]
		_	0.2	_	-	-	-	_	_	_	[k]
	BC 5/2015	_	1	_	-	-	-	_	_	_	[m]
		_	0.2	_	-	-	-	_	_	_	[k]
copper	ON 7/2015	-	0.2	_	-	-	-	_	-	_	[k]
••	ON 7/2015	-	1	_	-	-	-	_	-	_	[n]
copper, as Cu	QC 1/2014	_	1	_	-	-	-	_	_	_	[0]
	QC 1/2014	_	0.2	_	-	-	-	_	_	_	[p]
copper, measured as Cu	SK 7/2013	_	0.2	_	-	0.6	-	_	_	_	[k]
, , , , , , , , , , , , , , , , , , , ,	SK 7/2013	_	1	_	-	3	-	_	_	_	[q]
manganese, as Mn	US ACGIH 3/2015	_	0.1	_	_	-	_	_	-	-	[r]
. 5,	US ACGIH 3/2015	-	0.02	_	_	-	_	_	-	-	[a]
	AB 4/2009	_	0.2	_	_	_	_	_	_	_	[]
	BC 5/2015	_	0.2	_	_	_	_	_	_	_	
	ON 7/2015	_	0.2	_	_	_	_	_	_	_	
	QC 1/2014	-	0.2	_	_	-	_	_	-	_	[i]
manganese, measured as Mn	SK 7/2013	_	0.2	_	_	0.6	_	_	_	_	1.3
chromium, measured as Cr	US ACGIH 3/2015	-	0.5	_	_	_	_	_	-	_	[s]
chromium, as Cr	AB 4/2009	_	0.5	_	_	l _	_	_	_	_	[3]
chromium	BC 5/2015	_	0.5	_	_	_	_	_	_	_	[,]
chromium, as Cr	ON 7/2015	_	0.5	_	_	l _	_	_	_	_	[s]
chromium	QC 1/2014	_	0.5	_	_	l _	_	_	_	_	[-]
chromium, measured as Cr	SK 7/2013	l <u>-</u>	0.5		l_	1.5		<u>-</u>	L	_	

[3]Skin sensitization

Form: [a]Respirable fraction [b]Metal Dust [c]Respirable [d]Respirable fraction. [e]Metal dust [f]Pyro powder [g]Respirable dust [h]Total dust [i]Total dust. [j]Dust and mist [k]Fume [l]Dusts and Mists [m]Dusts and mists [n]dust and mists [o]dusts & mists [p]fume [q]dust and mist [r]Inhalable fraction [s] Inorganic

Appropriate engineering controls

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.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels

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Section 8. Exposure controls/personal protection

Individual protection measures

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.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: Face shield with radiation shielding.

Skin protection

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Gloves. Fire resistant.

Body protection

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. Recommended:

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Metal cap, safety boots.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: Dust respirator.

Section 9. Physical and chemical properties

Appearance

Physical state Solid

Color Reddish-brown. Grayish-white.

Odor Odorless **Odor threshold** Not available. pН Not available

1540 to 2030°C (2804 to 3686°F) **Melting point**

Boiling point Not available Flash point Not available **Evaporation rate** Not available

Emits toxic fumes when heated. Flammability (solid, gas)

Lower and upper explosive (flammable) limits

Not available

Vapor pressure Not available. Vapor density Not available. Relative density Not available

Solubility Insoluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/

water

Not available.

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Not available Viscosity



Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: acids.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Arc radiation can support the production of ozone and nitrogen oxides.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

pecies	Dose	Exposure
	- 3	4 hours
		3

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
manganese	Eyes - Mild irritant	Rabbit		24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit		24 hours 500 milligrams	-

Conclusion/Summary

Skin: Not available.Eyes: Not available.Respiratory: Not available.

Sensitization

Conclusion/Summary

Skin : Not available.

Respiratory : Not available.

Mutagenicity

Conclusion/Summary : Not available

Classification
Not applicable.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Aluminium powder (stabilized) manganese	Category 2 Category 2		lungs central nervous system (CNS) and lungs

Aspiration hazard

Not available.

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Section 11. Toxicological information

Information on the likely routes of

exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

General : May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	5013.2 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Aluminium powder (stabilized)	Acute LC50 38000 µg/l Acute LC50 120 µg/l Fresh water Chronic NOEC 9 mg/l Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss - Embryo Aquatic plants - Ceratophyllum demersum	48 hours 96 hours 3 days
manganese	Acute EC50 31000 μg/l Fresh water Acute LC50 29000 μg/l Acute LC50 28 mg/l Fresh water Chronic NOEC 1.7 mg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia magna Fish - Pimephales promelas Daphnia - Water Flea- Ceriodaphnia dubia	4 days 48 hours 96 hours 8 days

Conclusion/Summary

: Not available.

Persistence and degradability

Conclusion/Summary

: Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K

oc)

: Not available.

Other adverse effects : No

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	TDG Classification	DOT Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user

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[:] **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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Section 14. Transport information

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : The following components are listed: Aluminum (fume or dust only); Copper (and its compounds);

Manganese (and its compounds)

CEPA Toxic substances : None of the components are listed.

Canada inventory : All components are listed or exempted.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

History

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Prepared by : IHS

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the

Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

HPR = Hazardous Products Regulations

ACGIH=American Conference of Governmental Industrial Hygiene.

ACGIH-A1-Confirmed Human Carcinogen. ACGIH-A2-Suspected Human Carcinogen.

ACGIH-A3-Animal Carcinogen.

ACGIH-A4-Not Classifiable as a Human Carcinogen. ACGIH-A5-Not suspected as a Human Carcinogen. IARC=International Agency for Research on Cancer

IARC 1: Proven.

IARC 2A: Probable for human. IARC 2B: Possible for human. IARC 3: Not classifiable for human.

EU= European Union

Carc. 1A: May cause cancer (Known)
Carc. 1B: May cause cancer (Presumed)
Carc. 2: Suspected of causing cancer
NTP=National Toxicology program.

Procedure used to derive the classification

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Section 16. Other information

Classification	Justification
TOXIC TO REPRODUCTION (Fertility) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS) and lungs) - Category 2	Calculation method Calculation method

References : HPR = Hazardous Products Regulations

▼ Indicates information that has changed from previously issued version.

Notice to reader

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