SAFETY DATA SHEET



	1. Product and Company Ide	entification
Product identifier	A/C Restart (Connect Inject) (4060-55, 4	060-56)
Other means of identification	Not available	
Recommended use	Acid neutralizer	
Recommended restrictions	None known.	
Manufacturer information	Nu-Calgon 2611 Schuetz Road St. Louis, MO 63043 US Phone: 314-469-7000 / 800-554-5499 Eme 1-800-424-9300 (CHEMTREC)	ergency Phone:
Supplier	See above.	
	2. Hazards Identificat	ion
Physical hazards	Flammable liquids	Category 4
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2B
	Sensitization, respiratory	Category 1
	Sensitization, skin	Category 1
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards	Not classified	
Signal word	Danger	
Hazard statement		Causes skin irritation. May cause an allergic skin allergy or asthma symptoms or breathing difficulties if ugh prolonged or repeated exposure.
Precautionary statement		
Prevention	Wear protective gloves/eye protection/face not eat, drink or smoke when using this pro	a, open flames and other ignition sources. No smoking. protection. Wash hands thoroughly after handling. Do bduct. Contaminated work clothing should not be the dust/fume/gas/mist/vapors/spray. In case of tection.
Response	In case of fire: Use appropriate extinguishi	ng media to extinguish.
	clothing and wash it before reuse. IF INHALED: Remove person to fresh air a respiratory symptoms: Call a POISON CEN IF IN EYES: Rinse cautiously with water fo	skin irritation or rash occurs: Get medical formation on this label). Take off contaminated nd keep comfortable for breathing. If experiencing ITER/doctor. r several minutes. Remove contact lenses, if present ation persists: Get medical advice/attention.
Storage	Store in a well-ventilated place.	
Disposal	Dispose of contents/container in accordance	ce with local/regional/national/international regulations.
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known	
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known	

Hazard(s) not otherwise None known. classified (HNOC) Supplemental information Not applicable. 3. Composition/Information on Ingredients Mixture **CAS** number % **Chemical name** Common name and synonyms Benzenamine, 2162-74-5 3 - 10N,N'-methanetetraylbis[2,6-bis(1-m ethylethyl)-Benzene. 28178-42-9 0.1 - 1 2-isocyanato-1,3-bis(1-methylethyl)-All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. US GHS: The exact percentage (concentration) of composition has been withheld as a trade **Composition comments** secret in accordance with paragraph (i) of §1910.1200. 4. First Aid Measures Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical Skin contact advice/attention. Specific treatment (see information on this label). Take off contaminated clothing and wash it before reuse. Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Ingestion

IngestionIF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.Most important
symptoms/effects, acute and
delayedExposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May
cause an allergic skin reaction. Dermatitis. Rash. May cause allergic respiratory reaction. May
cause redness and pain. Prolonged exposure may cause chronic effects.Indication of immediateProvide general supportive measures and treat symptomatically. In case of shortness of breath,

 Indication of immediate
 Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

 treatment needed
 Image: Comparison of the symptomatically in case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General informationEnsure that medical personnel are aware of the material(s) involved, and take precautions to
protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately
(show the label where possible). Wash contaminated clothing before reuse.

5. Fire Fighting Measures

Suitable extinguishing media	Dry chemical powder. Foam. Water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Combustible liquid.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide (hydrocyanic acid).

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk.
	Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
	7. Handling and Storage
Precautions for safe handling	Keep away from open flames, hot surfaces and sources of ignition. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid contact with clothing. Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
	8. Exposure Controls/Personal Protection
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Use only under good ventilation conditions or with respiratory protection.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear suitable protective clothing.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear positive pressure self-contained breathing apparatus (SCBA).
Thermal hazards	Not applicable.
General hygiene considerations	When using, do not eat, drink or smoke. 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. Contaminated work clothing should not be allowed out of the workplace. Wash hands after handling and before eating.
	9. Physical and Chemical Properties
Appearance	Clear
Physical state	Liquid
Form	Liquid
Color	Straw
Odor	mild aromatic
Odor threshold	Not available
рН	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	599 °F (315 °C)

range

Pour point

Flash point **Evaporation rate**

Specific gravity Partition coefficient

(n-octanol/water)

Not available

Not available

Not available

148.9 °F (64.9 °C)

0.88

Page: 3 of 7	Issue date 17 April 2018
	4060-55, 4060-56 (Canada/US GHS)

Flammability (solid, gas)	Not applicable	
Upper/lower flammability or exp	losive limits	
Flammability limit - lower (%)	Not available	
Flammability limit - upper (%)	Not available	
Explosive limit - lower (%)	Not available	
Explosive limit - upper (%)	Not available	
Vapor pressure	Not available	
Vapor density	Not available	
Relative density	Not available	
Solubility(ies)	Insoluble	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	Not available	
	10. Stability and Reactivity	
Reactivity	Do not mix with other chemicals.	
Possibility of hazardous reactions	No dangerous reaction known under conditions of n	ormal use.
Chemical stability	Material is stable under normal conditions.	
Conditions to avoid	Avoid heat, sparks, open flames and other ignition s flash point. Contact with incompatible materials.	ources. Avoid temperatures exceeding the
Incompatible materials	Strong oxidizing agents. Acids. Caustics.	
Hazardous decomposition products	May include and are not limited to: Oxides of carbor (hydrocyanic acid).	a. Oxides of nitrogen. Hydrogen cyanide
	11. Toxicological Information	
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.	
Information on likely routes of e	xposure	
Ingestion	Harmful if swallowed. May cause stomach distress,	nausea or vomiting.
Inhalation	May cause damage to organs by inhalation. May cause allergy or asthma symptoms or breathing	g difficulties if inhaled.
Skin contact	Causes skin irritation. May cause an allergic skin rea	action.
Eye contact	Causes eye irritation.	
Symptoms related to the physical, chemical and toxicological characteristics	Exposed individuals may experience eye tearing, re skin reaction. Skin irritation. Dermatitis. Rash.	dness, and discomfort. May cause an allergic
Information on toxicological effe	ects	
Acute toxicity	Harmful if swallowed. May cause an allergic skin rea symptoms or breathing difficulties if inhaled.	action. May cause allergy or asthma
Components	Species	Test Results
Benzenamine, N,N'-methanetetra	/lbis[2,6-bis(1-methylethyl)- (CAS 2162-74-5)	
Inhalation LC50	Not available	
Oral		
LD50	Rat	300 - 2000 mg/kg
Benzene, 2-isocyanato-1,3-bis(1-r	nethylethyl)- (CAS 28178-42-9)	
Acute		
Inhalation LC50	Rat	47 mg/m3, 4 hours
Inhalation LC50 Oral		-
Inhalation LC50	Rat Mouse	47 mg/m3, 4 hours 3000 mg/kg 1414 mg/kg

Exposure minutesNot availableErythema valueNot availableOedema valueNot availableOedema valueCauses eye irritationSerious eye damage/eye irritationCauses eye irritationCorneal opacity valueNot availableCorneal opacity valueNot availableConjunctival reddening valueNot availableConjunctival oedema valueNot availableRecover daysNot availableRespiratory or skin sensitizationMay cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.MutagenicityNo data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.Not listed.Not listed.Reproductive toxicityThis product is not expected to cause reproductive or developmental	Skin corrosion/irritation	Causes skin irritation.
Defense valueNot availableOedema valueNot availableSerious eye damage/eyeCauses eye irritationirritationNot availableCorneal opacity valueNot availableIris lesion valueNot availableConjunctival reddening valueNot availableConjunctival oedema valueNot availableRecover daysNot availableRespiratory or skin sensitization Skin sensitizationMay cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.MutagenicityNo data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.CarcinogenicityThis product is not considered to be a carcinogen by IARC, NTP, or OSHA.Not listed.Not listed.	Exposure minutes	Not available
Serious eye damage/eye Causes eye irritation irritation Not available Corneal opacity value Not available Iris lesion value Not available Conjunctival reddening Not available value Not available Conjunctival oedema value Not available Recover days Not available Respiratory or skin sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, or OSHA. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.	Erythema value	Not available
irritation Not available irritation Not available Iris lesion value Not available Conjunctival reddening Not available value Not available Conjunctival oedema value Not available Recover days Not available Respiratory or skin sensitization Nay cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause an allergic skin reaction. Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, or OSHA. VS. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.	Oedema value	Not available
Corrieal opacity valueNot availableIris lesion valueNot availableConjunctival reddening valueNot availableConjunctival oedema valueNot availableRecover daysNot availableRespiratory or skin sensitizationMay cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.MutagenicityNo data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.CarcinogenicityNo data available to indicate product or be a carcinogen by IARC, NTP, or OSHA.US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)Not listed.		Causes eye irritation
Not available Not available Conjunctival reddening value Not available Conjunctival oedema value Not available Recover days Not available Respiratory or skin sensitization Skin sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, or OSHA. US. OSHA Specifically Reguted Substances (29 CFR 1910.1001-1050) Not listed.	Corneal opacity value	Not available
Conjunctival reducting value Not available Conjunctival oedema value Not available Recover days Not available Respiratory or skin sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, or OSHA. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.	Iris lesion value	Not available
Recover daysNot availableRespiratory or skin sensitizationMay cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.Respiratory sensitizationMay cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.MutagenicityNo data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.CarcinogenicityNo data available to indicate product or be a carcinogen by IARC, NTP, or OSHA.US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.		Not available
Respiratory or skin sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, or OSHA. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.	Conjunctival oedema value	Not available
Respiratory sensitization Skin sensitizationMay cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.MutagenicityNo data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.CarcinogenicityThis product is not considered to be a carcinogen by IARC, NTP, or OSHA.US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)Not listed.	Recover days	Not available
Skin sensitization May cause an allergic skin reaction. Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, or OSHA. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.	Respiratory or skin sensitization	
Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, or OSHA. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.	Respiratory sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, or OSHA. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.	Skin sensitization	May cause an allergic skin reaction.
mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, or OSHA. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.		
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.	Mutagenicity	
Not listed.	Carcinogenicity	This product is not considered to be a carcinogen by IARC, NTP, or OSHA.
	US. OSHA Specifically Regu	lated Substances (29 CFR 1910.1001-1050)
Reproductive toxicity This product is not expected to cause reproductive or developmental	Not listed.	
	Reproductive toxicity	This product is not expected to cause reproductive or developmental

effects. Not available.

Not classified.

Not available.

Teratogenicity

single exposure

Aspiration hazard

Chronic effects

Specific target organ toxicity -

Specific target organ toxicity - repeated exposure

	12. Ecological Information
Ecotoxicity	Not available.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Mobility in general	Not available.
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.
	13. Disposal Considerations
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain intersewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

May cause damage to organs through prolonged or repeated exposure.

May cause damage to organs through prolonged or repeated exposure.

Waste from residues / unused products	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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
	14. Transport Information
	-
Transport of Dangerous Goods (TDG) Proof of Classification General	In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. DOT - 49 CFR 173.150 (f) - Combustible Liquid Exemption
U.S. Department of Transportation	on (DOT)
Transportation of Dangerous Go	
Not regulated as dangerous g	
	anda
Not regulated as dangerous g	000S.
IMDG (Marine Transport)	
Not regulated as dangerous g	00ds.
	15. Regulatory Information
Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.
Export Control List (CEPA 1	999, Schedule 3)
Not listed.	
Greenhouse Gases	
Not listed.	
Precursor Control Regulatio	ns
Not regulated.	
WHMIS 2015 Exemptions	Not applicable
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export I	Notification (40 CFR 707, Subpt. D)
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Not listed. US. OSHA Specifically Regu Not listed.	lated Substances (29 CFR 1910.1001-1050)
	authorization Act of 1006 (SADA)
Hazard categories	authorization Act of 1986 (SARA) Immediate Hazard - Yes Delayed Hazard - Yes
	Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting) Not regulated.	
Other federal regulations	
•	112 Hazardous Air Pollutants (HAPs) List
Not regulated.	112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
U.S. State regulations	
U.S. Texas Effects Screenin	g Levels: Listed substance
Not listed. U.S. Massachusetts RTK - S	-
Not regulated.	

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Inventory status

Country(s) or region	Inventory name On invent	ory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

LEGEND	HEALTH × 2
Severe Serious Moderate	FLAMMABILITY 2 PHYSICAL HAZARD 0
Slight Minimal	PERSONAL X PROTECTION X
Disclaimer	Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.
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Effective date	17-April-2018
Prepared by	Nu-Calgon Technical Service Phone: (314) 469-7000

16. Other Information