

# Safety Data Sheet

**AC-59**

SDS Revision Date:

07/17/2015



## 1. Identification

### 1.1. Product identifier

**Product Identity** AC-59

**Alternate Names** AC-59

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

**Intended use** See Technical Data Sheet.

**Application Method** See Technical Data Sheet.

### 1.3. Details of the supplier of the safety data sheet

**Company Name** Broadview Technologies  
7-33 Amsterdam Street  
Newark, NJ 07105

### Emergency

**CHEMTREC (USA)** (800) 424-9300

**Customer Service: Broadview Technologies** (973)-465-0077

## 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

Skin Irrit. 3;H316 Causes mild skin irritation. (Not adopted by US OSHA)

Eye Dam. 1;H318 Causes serious eye damage.

Skin Sens. 1;H317 May cause an allergic skin reaction.

Resp. Sens. 1;H334 May cause allergy or asthma symptoms of breathing difficulties if inhaled.

Muta. 2;H341 Suspected of causing genetic defects.

### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Danger**

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

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H341 Suspected of causing genetic defects.

### [Prevention]:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves / eye protection / face protection.
- P285 In case of inadequate ventilation wear respiratory protection.

### [Response]:

- P302+352 IF ON SKIN: Wash with plenty of soap and water.
- P304+341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P308+313 IF exposed or concerned: Get medical advice / attention.
- P310 Immediately call a POISON CENTER or doctor / physician.
- P321 Specific treatment (see information on this label).
- P333+313 If skin irritation or a rash occurs: Get medical advice / attention.
- P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.
- P363 Wash contaminated clothing before reuse.

### [Storage]:

- P405 Store locked up.

### [Disposal]:

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

## 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Cyclohexane-1,2-dicarboxylic acid CAS Number: 0000085-42-7	50 - 75	Eye Dam. 1;H318 Resp. Sens. 1;H334 Skin Sens. 1;H317	[1]
ISOBENZOFURANDIONE, HEXAHYDROMETHYL- CAS Number: 0025550-51-0	25 - 50	Eye Dam. 1;H318 Resp. Sens. 1;H334 Skin Sens. 1;H317	[1]
Tetrahydrophthalic acid anhydride CAS Number: 0000085-43-8	1.0 - 10	Eye Dam. 1;H318 Resp. Sens. 1;H334 Skin Sens. 1;H317 Aquatic Chronic 3;H412	[1]

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Isobenzofurandione CAS Number: 0000085-44-9	1.0 - 10	Acute Tox. 4;H302 STOT SE 3;H335 Skin Irrit. 2;H315 Eye Dam. 1;H318 Resp. Sens. 1;H334 Skin Sens. 1;H317	[1][2]
Oxirane, (butoxymethyl)- CAS Number: 0002426-08-6	1.0 - 10	Flam. Liq. 3;H226 Muta. 2;H341 Acute Tox. 4;H332 Acute Tox. 4;H302 STOT SE 3;H335 Skin Sens. 1;H317 Aquatic Chronic 3;H412	[1][2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

## 4. First aid measures

### 4.1. Description of first aid measures

- General** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
- Eyes** Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
- Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
- Ingestion** If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

- Overview** No information found for human overexposure. Based on the available animal toxicity information for similar products, it is anticipated that this material will produce moderate to severe skin irritation and severe eye irritation. Upon prolonged contact, burns and possible irreversible damage may be produced. Repeated or prolonged contact may induce skin or lung sensitization. Mists or vapors may be irritating to the respiratory tract. Overexposure may aggravate bronchial asthma, eczema, and other allergic conditions. Reproductive or genetic defect hazard. See section 2 for further details.
- Inhalation** May cause allergy or asthma symptoms of breathing difficulties if inhaled.
- Eyes** Causes serious eye damage.
- Skin** May cause an allergic skin reaction. Causes mild skin irritation.

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## 5. Fire-fighting measures

### 5.1. Extinguishing media

Foam, Dry Chemical, Water, and Carbon Dioxide

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

Hazardous decomposition: Thermal decomposition may produce toxic organic vapors/fumes and oxides of carbon. Avoid breathing dust / fume / gas / mist / vapors / spray.

### 5.3. Advice for fire-fighters

Firefighting personnel must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

Products of combustion are toxic. If water must be used, use a fog nozzle to avoid spread of burning liquid and increased evaporation of volatile, flammable material.

ERG Guide No. ----

## 6. Accidental release measures

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

Put on appropriate personal protective equipment (see section 8).

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

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

Caution! Floors may become slippery. Wear appropriate protective gear and NIOSH/MSHA approved respirator where mists or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). Dike and contain spill with inert material (sand, earth, etc.). Transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewer and open bodies of water.

## 7. Handling and storage

### 7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

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

Keep Containers tightly closed until used.

Incompatible materials: Incompatible with bases, oxidizing agents, and strong acids. This material hydrolyzes in water.

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See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

#### Exposure

CAS No.	Ingredient	Source	Value
0000085-42-7	Cyclohexane-1,2-dicarboxylic acid	OSHA	No Established Limit
		ACGIH	Ceiling: 0.005 mg/m <sup>3</sup> S, Revised 2004,
		NIOSH	No Established Limit
		Supplier	No Established Limit
0000085-43-8	Tetrahydrophthalic acid anhydride	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0000085-44-9	Isobenzofurandione	OSHA	TWA 12 mg/m <sup>3</sup> (2 ppm)
		ACGIH	TWA: 1 ppmS
		NIOSH	TWA 6 mg/m <sup>3</sup> (1 ppm)
		Supplier	No Established Limit
0002426-08-6	Oxirane, (butoxymethyl)-	OSHA	TWA 50 ppm (270 mg/m <sup>3</sup> )
		ACGIH	TWA: 3 ppmSkin, S, R, Revised 2005,
		NIOSH	C 5.6 ppm (30 mg/m <sup>3</sup> ) [15-minute]
		Supplier	No Established Limit
0025550-51-0	ISOBENZOFURANDIONE, HEXAHYDROMETHYL-	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

### Carcinogen Data

CAS No.	Ingredient	Source	Value
0000085-42-7	Cyclohexane-1,2-dicarboxylic acid	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000085-43-8	Tetrahydrophthalic acid anhydride	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000085-44-9	Isobenzofurandione	OSHA	Select Carcinogen: No

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		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0002426-08-6	Oxirane, (butoxymethyl)-	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0025550-51-0	ISOBENZOFURANDIONE, HEXAHYDROMETHYL-	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

### 8.2. Exposure controls

- Respiratory** In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices. In the absence of proper environmental controls, a NIOSH/MSHA jointly approved respirator is advised.
- Eyes** Wear chemical goggles where there is potential for eye contact. Use safety glasses with side shields under normal use conditions.
- Skin** To prevent skin contact, rubber or neoprene gloves are recommended.
- Engineering Controls** Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
- Other Work Practices** Eye wash stations, safety showers, and protective clothing should be provided to all workers. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

<b>Appearance</b>	Clear Yellow Liquid
<b>Odor</b>	Unknown
<b>Odor threshold</b>	Not determined
<b>pH</b>	Acidic
<b>Melting point / freezing point</b>	Not Measured
<b>Initial boiling point and boiling range</b>	Not Measured
<b>Flash Point</b>	248°F (Closed Cup)
<b>Evaporation rate (Ether = 1)</b>	Less than 1
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> Not Measured <b>Upper Explosive Limit:</b> Not Measured

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Vapor pressure (Pa)	1.5 mmHg at 100°C
Vapor Density	Not Measured
Specific Gravity	1.21 at 25°C
Solubility in Water	Insoluble (Hydrolyzes)
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
VOC Content	Nil

### 9.2. Other information

No other relevant information.

## 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Avoid moisture and heat.

### 10.5. Incompatible materials

Incompatible with bases, oxidizing agents, and strong acids. This material hydrolyzes in water.

### 10.6. Hazardous decomposition products

Thermal decomposition may produce toxic organic vapors/fumes and oxides of carbon.

## 11. Toxicological information

### Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Cyclohexane-1,2-dicarboxylic acid - (85-42-7)	No data available	No data available	No data available	No data available	No data available
ISOBENZOFURANDIONE, HEXAHYDROMETHYL- - (25550-51-0)	No data available	No data available	No data available	No data available	No data available
Tetrahydrophthalic acid anhydride - (85-43-8)	No data	No data	No data	No data	No data

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	available	available	available	available	available
Isobenzofurandione - (85-44-9)	1,530.00, Rat - Category: 4	10,000.00, Rabbit - Category: NA	No data available	No data available	No data available
Oxirane, (butoxymethyl)- - (2426-08-6)	1,660.00, Rat - Category: 4	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	3	Causes mild skin irritation. (Not adopted by US OSHA)
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	1	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	2	Suspected of causing genetic defects.
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

## 12. Ecological information

### 12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

#### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Cyclohexane-1,2-dicarboxylic acid - (85-42-7)	660.00, Leuciscus idus	103.00, Daphnia magna	95.60 (72 hr), Scenedesmus

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			subspicatus
ISOBENZOFURANDIONE, HEXAHYDROMETHYL- - (25550-51-0)	Not Available	Not Available	Not Available
Tetrahydrophthalic acid anhydride - (85-43-8)	Not Available	Not Available	Not Available
Isobenzofurandione - (85-44-9)	313.00, Leuciscus idus	Not Available	41.40 (96 hr), Pseudokirchneriella subcapitata
Oxirane, (butoxymethyl)- - (2426-08-6)	Not Available	3.90, Daphnia magna	Not Available

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

## 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: No		

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## 14.6. Special precautions for user

No further information

## 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act (TSCA)** All components of this material are either listed or exempt from listing on the TSCA Inventory.

**WHMIS Classification** D2A E

**US EPA Tier II Hazards**

**Fire:** No  
**Sudden Release of Pressure:** No  
**Reactive:** No  
**Immediate (Acute):** Yes  
**Delayed (Chronic):** Yes

### EPCRA 311/312 Chemicals and RQs (lbs):

Isobenzofurandione (5,000.00)

### EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### EPCRA 313 Toxic Chemicals:

Isobenzofurandione

### Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### New Jersey RTK Substances (>1%):

Cyclohexane-1,2-dicarboxylic acid

Oxirane, (butoxymethyl)-

Isobenzofurandione

Tetrahydrophthalic acid anhydride

### Pennsylvania RTK Substances (>1%):

Oxirane, (butoxymethyl)-

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## 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H412 Harmful to aquatic life with long lasting effects.

**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

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