

Safety Data Sheet

BV 2PS-2

SDS Revision Date:

07/17/2015



1. Identification

1.1. Product identifier

Product Identity BV 2PS-2
Alternate Names MTHPA, Methyltetrahydrophthalic anhydride system
Methyl-4-cyclohexene-1,2-dicarboxylic anhydride

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

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.

2.2. Label elements

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



Danger

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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

Safety Data Sheet

BV 2PS-2

SDS Revision Date:

07/17/2015



[Prevention]:

- 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.
- P310 Immediately call a POISON CENTER or doctor / physician.
- P313 Get medical advice / attention.
- 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]:

No GHS storage statements

[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
ISOBENZOFURANDIONE, 3A,4,7,7A-TETRAHYDROMETHYL- CAS Number: 0026590-20-5	75 - 100	Eye Dam. 1;H318 Resp. Sens. 1;H334 Skin Sens. 1;H317	[1]

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.

Safety Data Sheet

BV 2PS-2

SDS Revision Date:

07/17/2015



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	If adverse allergic effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.
Eyes	Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains. Continue irrigating with normal saline. If irritation persists, cover both eyes with sterile bandages. Get prompt medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. Give large amounts of water or milk. Allow vomiting to occur. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.

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

Overview	Inhalation: Vapors may cause irritation, use in well ventilated area Skin Contact: Will cause skin irritation after prolonged contact Eye Contact: Eye irritant; avoid eye contact Ingestion: Irritant, if ingested consult a physician 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.

5. Fire-fighting measures

5.1. Extinguishing media

Regular dry chemical, carbon dioxide, water, regular foam Large fires: Use regular foam or flood with fine water spray.

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

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Use extinguishing agents appropriate for surrounding fire. Do not get water directly on material. Large fires: Flood with fine water spray. Reduce vapors with water spray. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Avoid

Safety Data Sheet

BV 2PS-2

SDS Revision Date:

07/17/2015



inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

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

Do not touch spilled material. Stop leak if possible without personal risk. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Small dry spills: Move containers away from spill to a safe area. Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry.

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

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Bases, oxidizing materials. Bases: may react with anhydrides. Strong oxidizers: fire and explosion hazard.

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
0026590-20-5	ISOBENZOFURANDIONE, 3A,4,7,7A-TETRAHYDROMETHYL-	OSHA	No Established Limit
		ACGIH	No Established Limit

Safety Data Sheet

BV 2PS-2

SDS Revision Date:

07/17/2015



NIOSH	No Established Limit
Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0026590-20-5	ISOBENZOFURANDIONE, 3A,4,7,7A- TETRAHYDROMETHYL-	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

When vapor concentrations are high such as when handling hot product in open containers, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. Any chemical cartridge respirator with organic vapor cartridge(s). Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s). Any air-purifying respirator with a full facepiece and an organic vapor canister.

Eyes

When splash risk exists, wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower.

Skin

Wear appropriate chemical resistant clothing. To prevent skin contact, rubber or neoprene gloves are recommended.

Engineering Controls

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits. (subject to local gov't requirements)

Other Work Practices

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

Appearance	Clear Green Liquid
Odor	Unknown
Odor threshold	Not determined
pH	Not Measured
Melting point / freezing point	<-15°C
Initial boiling point and boiling range	Not Measured
Flash Point	>94°C
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured

Safety Data Sheet

BV 2PS-2

SDS Revision Date:

07/17/2015



Vapor pressure (Pa)

Upper Explosive Limit: Not Measured

Vapor Density

Not Measured

Specific Gravity

Not Measured

Solubility in Water

1.21

Partition coefficient n-octanol/water (Log Kow)

Decomposes

Auto-ignition temperature

Not Measured

Decomposition temperature

Not Measured

Viscosity (cSt)

Not Measured

Molecular Weight

Not Measured

Molecular Formula

166.17

C-H3-C6-H7-(C-O)2-0

9.2. Other information

Solvent Solubility: Slightly Soluble. Petroleum ether - Miscible: Benzene, toluene, acetone carbon tetrachloride, chloroform, ethanol, ethyl acetate

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 heat, flames, sparks and other sources of ignition. Dangerous gases may accumulate in confined spaces. May ignite or explode on contact with combustible materials.

10.5. Incompatible materials

Bases, oxidizing materials. Bases: may react with anhydrides. Strong oxidizers: fire and explosion hazard.

10.6. Hazardous decomposition products

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

Safety Data Sheet

BV 2PS-2

SDS Revision Date:

07/17/2015



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
ISOBENZOFURANDIONE, 3A,4,7,7A-TETRAHYDROMETHYL- - (26590-20-5)	No data available	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	---	Not Applicable
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	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Safety Data Sheet

BV 2PS-2

SDS Revision Date:

07/17/2015



12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
ISOBENZOFURANDIONE, 3A,4,7,7A-TETRAHYDROMETHYL- - (26590-20-5)	Not Available	Not Available	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

Safety Data Sheet

BV 2PS-2

SDS Revision Date:

07/17/2015



14.5. Environmental hazards

IMDG Marine Pollutant: No

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): No

EPCRA 311/312 Chemicals and RQs:

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

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:

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

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%) :

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

Pennsylvania RTK Substances (>1%) :

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

Safety Data Sheet

BV 2PS-2

SDS Revision Date:

07/17/2015



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:

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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

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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