

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier:

IPA 99 Synthetic Approach Cleaner

Alternate Names:

Kit/Package Description: IPA 99 Synthetic Approach Cleaner - 12 x 1 quart and 4 x 1 gallon containers

Kit/Package Part Number: 62-860254-000 and 62-860255-000

Product Part Number: 61-860254-000 and 61-860255-000

IUPAC name: Isopropyl alcohol

CAS number: 67-63-0

EC number: 200-661-7

Registration number:

Registration number is not available for this substance since this substance or its use is exempted from registration based on Article 2 of REACH regulation, or registration is not necessary due to the annual tonnage band, or the registration is scheduled to a later registration date.

1.2. Relevant identified uses of the substance and uses advised against:

Bowling lane cleaner for professional use.

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

Brunswick Bowling Products, LLC

525 W. Laketon Ave.

Muskegon, MI 49441. USA

1.3.1. Responsible person: -

E-mail: brunswick.hu@brunswickbowling.com

1.4. Emergency telephone number:

24-hour Emergency Telephone No.: CHEMTEL +1 813-248-0585
Customer Service: Brunswick Bowling Products LLC: 231-725-4966

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance:

Classification according to Regulation 1272/2008/EC (CLP):

Flammable Liquids 2 – H225

Eye Irritation 2 – H319

STOT SE 3 – H336

Warning H statements:

H225 – Highly flammable liquid and vapour.

H319 – Causes serious eye irritation.

H336 – May cause drowsiness or dizziness.

2.2. Label elements:

IUPAC name: Isopropyl alcohol

CAS number: 67-63-0

EC number: 200-661-7



DANGER

Warning H statements:**H225** – Highly flammable liquid and vapour.**H319** – Causes serious eye irritation.**H336** – May cause drowsiness or dizziness.**Precautionary P statements:****P210** – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P261** – Avoid breathing fume/gas/mist/ vapours/spray.**P271** – Use only outdoors or in a well-ventilated area.**P304 + P340 + P312** - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/ doctor if you feel unwell.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P337 + P313** – If eye irritation persists: Get medical advice/attention.**P370 + P378** – In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.**P403 + P233** – Store in a well-ventilated place. Keep container tightly closed.**P501** – Dispose of contents/container in accordance with local / national regulations.2.3. Other hazards:

No other known specific hazards for human or environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS3.1. Substance:

IUPAC name: Isopropyl alcohol

CAS number: 67-63-0

EC number: 200-661-7

Purity: 100 %

SECTION 4: FIRST AID MEASURES4.1. 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.

IN CASE OF INGESTION:

Measures:

- If swallowed obtain immediate medical attention. Keep at rest.
- Do NOT induce vomiting.
- If the person is conscious, have them drink water.
- Contact a physician immediately.
- Do not induce vomiting.

IN CASE OF INHALATION:

Measures:

- 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.

IN CASE OF SKIN CONTACT:

Measures:

- Remove contaminated clothing.
- Wash skin thoroughly with soap and water or use a recognized skin cleanser.

IN CASE OF EYE CONTACT:

Measures:

- Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention

4.2. Most important symptoms and effects, both acute and delayed:**Overview:**

Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

Inhalation: May cause drowsiness or dizziness.

Eyes: Causes serious eye irritation.

- 4.3. Indication of any immediate medical attention and special treatment needed:
No data available.

SECTION 5: FIRE-FIGHTING MEASURES

- 5.1. Extinguishing media:
5.1.1. Suitable extinguishing media:
Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
5.1.2. Unsuitable extinguishing media:
Do not use; water jet.
- 5.2. Special hazards arising from the substance or mixture:
Hazardous decomposition: Carbon Oxides
Keep away from heat / sparks / open flames / hot surfaces - No smoking.
Use explosion-proof electrical / ventilating / light / equipment.
Avoid breathing dust / fume / gas / mist / vapours / spray.
- 5.3. Advise for fire fighters:
In the event of fire, wear full protective clothing and NIOSH Approved Self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures:
6.1.1. For non-emergency personnel:
Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to abide in the field of accident.
6.1.2. For emergency responders:
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:
Eliminate all sources of ignition in the vicinity of spilled material. All equipment used when handling the product must be grounded. Ensure adequate ventilation. Pick up and transfer to properly labelled containers.
- 6.4. Reference to other sections:
For further and detailed information see section 8 and 13.

SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling:
Observe conventional hygiene precautions.
See section 2 for further details.
Technical measures:
No special measures required.
Precautions against fire and explosion:
No special measures required.
- 7.2. Conditions for safe storage, including any incompatibilities:
Technical measures and storage condition:
Handle containers carefully to prevent damage and spillage.
Keep container tightly closed in a dry and well-ventilated place.
Keep away from open flames, hot surfaces and sources of ignition.
Keep at temperatures between 4 °C and 38 °C.
Incompatible materials: no data available.
Packaging material: no special prescriptions.
- 7.3. Specific end use(s):
No specific instructions available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION8.1. Control parameters:

Occupational exposure limit values:

Isopropyl alcohol (CAS: 67-63-0): Long-term exposure limit (8-hr TWA reference period): 400 ppm; 999 mg/m³; Short-term exposure limit (15-minute reference period): 500 ppm; 1250 mg/m³

DNEL		Routes of exposure	Exposure frequency	Remarks:
Worker	Consumer			
no data available	no data available	Dermal	Short term (acute) Long term (repeated)	no data available
no data available	no data available	Inhalative	Short term (acute) Long term (repeated)	no data available
no data available	no data available	Oral	Short term (acute) Long term (repeated)	no data available

PNEC			Exposure frequency:	Remarks:
Water	Soil	Air		
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available

8.2. Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1 Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin.

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:

An eyewash fountain should be located in areas where the product is used. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

8.2.2 Individual protection measures, such as personal protective equipment:

1. Eye/face protection: Protective safety glasses recommended.
2. Skin protection:
 - a. Hand protection: no information.
 - b. Other: Wear overalls to keep skin contact to a minimum.
3. Respiratory protection: Use approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.
4. Thermal hazard: None known.

8.2.3 Environmental exposure controls:

No special measures required.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions an expert's advice should be sought out before deciding upon further protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES9.1. Information on basic physical and chemical properties:

Parameter	Test method:	Remarks:
1. Appearance:		clear liquid
2. Odour:		alcohol odour
3. Odour threshold:		400 ppm
4. pH value:		not measured
5. Melting point/ freezing point:		not measured
6. Initial boiling point/boiling range:		not measured
7. Flash point:		12.2°C
8. Evaporation rate:		not measured
9. Flammability (solid, gas):		not applicable
10. Upper/lower flammability or explosive limits:		lower explosive limit: 2.0 % upper explosive limit: 12.7 %
11. Vapour pressure:		no data available
12 Vapour density:		no data available
13. Relative density:		0.786
14. Solubility(ies):		completely soluble in water
15. Partition coefficient: n-octanol/water:		no data available
16. Auto-ignition temperature:		no data available
17. Decomposition temperature:		no data available
18. Viscosity:		no data available
19. Explosive properties:		no data available
20. Oxidizing properties:		no data available

9.2. Other information:

No data available.

SECTION 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 contact with open flame, sparks or hot surfaces.
- 10.5. Incompatible materials:
No data available.
- 10.6. Hazardous decomposition products:
Carbon Oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1. Information on toxicological effects:
Acute toxicity: none known.
Skin corrosion/irritation: none known.
Serious eye damage/eye irritation: causes serious eye irritation.
Respiratory or skin sensitisation: none known.
Germ cell mutagenicity: none known.
Carcinogenicity: none known.
Reproductive toxicity: none known.
STOT-single exposure: may cause drowsiness or dizziness.
STOT-repeated exposure: none known.
Aspiration hazard: none known.
- 11.1.1. For substances subject to registration, brief summaries of the information derived from the test conducted:
Acute toxicity
Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapour LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Isopropyl Alcohol (CAS: 67-63-0)	4.710, Rat - Category: 5	1.800, Rat - Category: NA	72.6, Rat - Category: NA	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).

Carcinogenicity:

Ingredient	Source	Value
Isopropyl Alcohol (CAS: 67-63-0)	OSHA	Select Carcinogen: No
	NTP	Known: No; Suspected: No
	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No

- 11.1.2. Relevant toxicological properties of the hazardous substances:
No data available.
- 11.1.3. Information on likely routes of exposure:
Ingestion, inhalation, skin contact, eye contact.
- 11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:
No data available.
- 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:
Causes serious eye irritation.
May cause drowsiness or dizziness.
- 11.1.6. Interactive effects:
No data available.
- 11.1.7. Absence of specific data:
No information.
- 11.1.8. Other information:
No data available.

SECTION 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
Isopropyl Alcohol (67-63-0)	1.400, Lepomis macrochirus	100.00, Daphnia magna	100 (72 hr), Scenedesmus subspicatus

- 12.2. Persistence and degradability:
There is no data available on the preparation itself.
- 12.3. Bioaccumulation 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.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods:
Disposal according to the local regulations.
- 13.1.1. Information regarding the disposal of the product:
No special recommendation from the manufacturer.
European Waste Code:
No appropriate EWC code can be given for the substance, since the identification of the proper code can be done with the method of use defined by the user of the substance. The European waste code number has to be determined after a discussion with a specialist dealing with waste disposal.
- 13.1.2. Information regarding the disposal of the packaging:
Dispose according to the relevant regulations.
- 13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:
None known.
- 13.1.4. Sewage disposal:
None known.
- 13.1.5. Special precautions for any recommended waste treatment:
No data available.

SECTION 14: TRANSPORT INFORMATION

- 14.1. UN Number:
1219
- 14.2. UN proper shipping name:
ISOPROPANOL (ISOPROPYLALKOHOL)
- 14.3. Transport hazard class(es):
3
- 14.4. Packaging group:
II.
- 14.5. Environmental hazard:
Marine Pollutant: no.
- 14.6. Special precautions for user:
No relevant information available.
- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:
Not applicable.

SECTION 15: REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- 15.2. Chemical safety assessment: no information available.

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet: none.
Full text of the abbreviations in the safety data sheet:
DNEL: Derived no effect level. PNEC: Predicted no effect concentration. CMR effects: carcinogenicity, mutagenicity and toxicity for reproduction. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent, Very Bioaccumulative. n.d.: not defined. n.a.: not applicable.
Key literature references and sources for data: safety data sheet (08. 10. 2015) issued by the manufacturer.

Relevant H-Phrases (number and full text) of Section 2 and 3:

H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

Brunswick Bowling Products, LLC

H336 – May cause drowsiness or dizziness.

Training advice: no data available.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information. The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product. It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Safety data sheet was prepared by: ToxInfo Kft.

Professional help regarding the explanation of the safety data sheet:
+36 70 335 8480; info@msds-europe.com