

TOPANOL FORMULA O

OIL FIRED COMBUSTION ADDITIVE

PRODUCT NAME: TOPANOL' FORMULA O

1. IDENTIFICATION OF THE SUBSTANCE/PREPERATION AND OF THE COMPANY/UNDERTAKING

Identification of substance/preparation
This safety data sheet covers:

Topanol Formula O
CH/06302B01/1
A solution of Butylated Hydroxy Toluene in Kerosene

Appearance	: Liquid.
Colour	: Green.
Odour	: Kerosene.
Density at 15 Deg C	: 0.82 kg/dm ³ (ASTM D 1298)
Boiling Range	: 150-300 Deg C (ASTM D86)
Flash Point	: >38 Deg C (ABEL ASTM D 3828)
Explosive Limits	: 0.6 – 6.5
Solubility in Water	: <0.02 g/l
Partition Coefficient	: >3 Log P (n-octanol/water)

Kerosene SG
SGK
RGK (Regular Grade Kerosene)
Domesticol 28
28 Second Oil
SGBO (Standard Grade Burning Oil)

Application

Topanol additive formulated and blended for domestic oil fired burners and cookers. Fuel for domestic burners; low sulphur industrial process fuel; solvent for certain industrial processes. Premium grade only can be used as fuel for flueless space heaters.

For specific application advice see appropriate Technical Data Sheet or consult your representative.

Company Identification

Topanol Formula Sales,
Wymondham Oil Storage Depot
Wymondham
NORFOLK
NR18 9QY

Emergency Telephone Number

For specialist advice in an emergency telephone Runcorn (01928) 572000.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Composition

A mixture of kerosene streams.

May contain small quantities of proprietary performance additives.

Hazardous Components

Kerosene – unspecified, Xn, N, R10 Flammable, R38 Irritating to skin, R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment, R32 Harmful if swallowed, R65 Harmful: may cause lung damage if swallowed. (>90%)

3. HAZARDS IDENTIFICATION**Flammable**

Harmful if swallowed – aspiration hazard.
Likely to cause skin irritation.

4. FIRST-AID MEASURES**Eyes**

Wash eyes thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.

Skin

Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.

Ingestion

If contamination of the mouth occurs, wash out thoroughly with water.
Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.

Inhalation

If fumes are inhaled the patient should be removed to fresh air and if recovery is not immediate, medical assistance must be called without delay. If breathing has failed respiration must be assisted, preferably by mouth to mouth method.

Medical Advice

Product can be aspirated on swallowing or following regurgitation of stomach contents, and can cause severe and potentially fatal chemical pneumonitis, which will require urgent treatment. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided. Gastric lavage should be undertaken only after endotracheal intubation. Monitor for cardiac dysrhythmias.

5. FIRE – FIGHTING MEASURES

For major fires call the Fire Service. Ensure an escape path is always available from any fire. There is a danger of flashback if sparks or hot surfaces ignite vapour.
Use foam, dry powder or water fog. DO NOT USE water jets.
Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.

Combustion Products

Toxic fumes may be evolved on burning or exposure to heat.
See Stability and Reactivity, Section 10 of this Safety Data Sheet.

6. Accidental Release Measures

Any spillage should be regarded as a potential fire risk.
In the event of spillage, remove all sources of ignition and ensure good ventilation.

Wear protective clothing. See Exposure Controls/Personal Protection, section 8, of this Safety Data Sheet.

Spilled material may make surfaces slippery. Clean up spilled material immediately.

Contain and recover spilled material using sand or other suitable inert absorbent material.

Recovery of large spillages should be effected by specialist personnel.

It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated.

Large and uncontained spillages should be smothered with foam to reduce the risk of ignition.

The foam blanket should be maintained until the area is declared safe.

Protect drains from potential spills to minimise contamination. Do not wash product into drainage system.

Vapour is heavier than air and may travel to remote sources of ignition (eg. Along drainage systems, in basements etc).

If spillage has occurred in a confined space, ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry.

In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment.

Recover product from the surface.

Protect environmentally sensitive areas and water supplies.

In the case of spillage at sea approved dispersants may be used where authorised by the appropriate government/regulatory authorities.

Regular surveillance on the location of the spillage should be maintained.

In the event of spillages contact the appropriate authorities. If spillage occurs call the Environment Agency Emergency Hotline on 0800 807060 (24 hours a day, 7 days a week).

7. HANDLING AND STORAGE

Storage Conditions

Store and dispense only in well ventilated areas away from heat and sources of ignition.

Store and use only in equipment/containers designed for use with this product.

Containers must be properly labelled and kept closed when not in use.

Do not remove warning labels from containers.

Empty packages may contain some remaining product. Retain hazard warning labels on empty packages as a guide to the safe handling storage and disposal of empty packaging.

Do not enter storage tanks without breathing apparatus unless the tank has been well ventilated and the tank atmosphere has been shown to contain hydrocarbon vapour concentrations of less than 1% of the lower flammability limit and an oxygen concentration of at least 20% volume.

Always have sufficient people standing by outside the tank with appropriate breathing apparatus and equipment to effect a quick rescue.

Handling Precautions

Avoid, as far as reasonably practicable, inhalation of vapour, mists or fumes generated during use.

Avoid contact with skin and observe good personal hygiene.

Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate.

Do not siphon product by mouth.

Whilst using do not eat, drink or smoke.

Wash hands thoroughly after contact.

Take all necessary precautions against accidental spillage into soil or water.

Wear gloves and other suitable protective clothing.

Fire Prevention

Light hydrocarbon vapours can build up in the headspace of tanks. These can cause flammability/explosion hazards even at temperature below the normal flash point (note; flash point must not be regarded as a reliable indicator of the potential flammability of vapour in tank headspaces).

Tank headspaces should always be regarded as potentially flammable and care should be taken to avoid static electrical discharge and all ignition sources during filling, ullaging and sampling from storage tanks.

When the product is pumped (eg. During filling, discharge or ullaging) and when sampling, there is a risk of static discharge. Ensure equipment used is properly earthed or bonded to the tank structure. Product contaminated rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate dispose of safely immediately after use. Empty containers represent a fire hazard as they may contain some remaining flammable product and vapour. Never cut, weld, solder or braze empty containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

There is no appropriate occupational exposure limit for this material.

If vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.

Protective Clothing

Wear face visor or goggles in circumstances where eye contact can accidentally occur.

If skin contact is likely, wear impervious protective clothing and/or gloves.

Protective clothing should be regularly inspected and maintained; overalls should be dry-cleaned, laundered and preferably starched after use.

Respiratory Protection

If operations are such that significant exposure to vapour, mist or fume may be anticipated, then suitable approved respiratory equipment should be worn.

The use of respiratory equipment must be strictly in accordance with the manufacturer's instructions and any statutory requirements governing its selection and use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: National specifications may apply.

Premium Grade Kerosene may be dyed pink.

Typical Values

Grades: Kerosene

			Premium	Standard	Topanol
	Topanol O		Grade	Grade	
	Test Method	Units			
Physical State			Liquid		
Colour			colourless -> kerosene-like	pale yellow	Green
Odour					
Density @ 15° C	ASTM D 1298	kg/m ³	<805	<820	
Boiling point/range	ASTM D 86	°C	150-28	150-300	
Flash point (Abel)	ASTM D 3828	°C	>46	>38	
Explosion limits		%	0.6-6.5	0.6-6.5	
Solubility in water		g/l	<0.02	<0.02	
Partition Coefficient (n-octanol/water)		Log ₁₀ P _{ow}	>3	>3	

10. STABILITY AND REACTIVITY

Conditions to Avoid

Stable at ambient temperatures.

Hazardous polymerisation reactions will not occur.

Materials to Avoid

Avoid contact with strong oxidising agents.

Hazardous Decomposition Products

Thermal decomposition products will vary with conditions.

Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide.

11. TOXICOLOGICAL INFORMATION**Eyes**

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

May be irritating to eyes at high concentrations of vapour, mists or fumes.

Skin

Likely to cause skin irritation.

Ingestion

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea. Will injure the lungs if aspiration occurs, eg. during vomiting.

Inhalation

May cause irritation to eyes, nose and throat due to exposure to vapour, mists or fumes.

12. ECOLOGICAL INFORMATION**Mobility**

Spillages may penetrate the soil causing ground water contamination.

Persistence and degradability

This product is inherently biodegradable.

Bioaccumulative potential

There is no evidence to suggest bioaccumulation will occur.

Aquatic Environment

Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

German WGK Classification: 2

13. DISPOSAL CONSIDERATIONS

Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

Dispose of product and container carefully and responsibly. Do not dispose of near ponds, ditches, down drains or onto soil.

Empty packages may contain some remaining product. Hazard warning labels are a guide to the safe handling of empty packaging and should not be removed.

14. TRANSPORT INFORMATION

ADR/RID: Kerosene, Flammable liquid, Class 3, item 31(c), Hazard Identification No 30

UN: KEROSENE, Flammable liquid, Class 3, Packing Group III, UN Number 1223

IATA/ICAO: Kerosene, Flammable liquid, Class 3, Packing Group III

IMO: KEROSENE, Flammable liquid, Class 3.3, Packing Group III

EMERGENCY ACTION CODE: Flammable liquid, 3[Y]

15. REGULATORY INFORMATION

EU Category of Danger

Flammable
Harmful
Irritant

EU Labelling

Symbol: St. Andrews Cross, Indication of danger: FLAMMABLE, HARMFUL,
Contains: Kerosene – unspecified

Risk (R) Phrases:

R10 Flammable.
R22 Harmful if swallowed.
R38 Irritating to skin.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.

Safety (S) Phrases:

S2 Keep out of reach of children.
S24 Avoid contact with skin.
S23 Do not breathe vapour.
S43 In case of fire use foam or dry powder. Never use water jets.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
S61 Avoid release into the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION

Legislation and other sources which have been used in the compilation of this Safety Data Sheet include:

Control of Substances Hazardous to Health (General ACOP) and Control of Carcinogenic Substances (Carcinogens ACOP)

Approved Codes of Practice. (HEE ref: L5)

Occupational Exposure Limits. (This publication is revised annually). (HSE ref: EH40)

Personal Protective Equipment at Work Regulations, Guidance on Regulations. (HSE ref: L25)

Entry into Confined Spaces. (HSE ref: GS5)

Waste Management – The Duty of Care, A Code of Practice.

Solvents and you. (HEE ref: IND (G) 93 (L))

Hot work. (HEE ref: HS (G) 5)

The Storage of Flammable Liquids in Containers. (HSE ref: HS (G) 51)

The Carcinogenicity of Mineral Oils. (HSE ref: EH58)

Health Surveillance of Occupational Skin Disease. (HSE ref: M524)

Effects of Mineral Oil on the Skin. HEE ref: SHW 397)

Skin Cancer Caused by Oil. (HSE ref: MSIB/5)

Respiratory Protective Equipment. HEE ref: HS (G)53)

The Petroleum (Regulation) Acts 1928 and 1936

Storage of Petroleum Regulations

Petrol Filling Stations: Construction and Operation (HEE ref: HS (G) 41)

Safe use of Petrol in Garages (HSE ref: IND (G) 51C)

Safe use of Petrol – Mobile Workers (HSE ref: IND (G) 5CC)

Special health precautions are necessary during cleaning or maintenance of petrol storage tanks including sludge removal. See Associated Octel Ltd booklet 27/80 "Leaded Gasoline Tank Cleaning and Disposal of Sludge".

CONCAWE Product Dossier "Gasoline" contains additional toxicological and ecological data. Available from CONCAWE, Madouplein 1,8-1030, Brussels, Belgium.

In circumstances where products are to be used outside the jurisdiction of the United Kingdom, such usage must be in conformity with the foregoing, or national standards; whichever are more stringent. This product is supplied on the understanding that it will be used in the manner and for the purpose (s) specified in the Product Data Sheet; the user having taken all precautions stipulated.

Failure to follow such directions may adversely affect any rights that the user might have against the company. Before application other than as directed, advice must be obtained from the company.