

SAFETY DATA SHEET

1. Identification

Product identifier

Saint John Polymer Modified Asphalt with Zycotherm SP

Other means of identification

Synonyms

PG 58H-28, PG 64H-28, PG 58V-28, PG 64V-28, PG 58E-28, PG 64E-28

Recommended use

Aspha t

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

Irving Oll Refining G.P.

Address

Box 1260

Saint John, NB E2L 4H6 Canada

Telephone

(506) 202-2000

Refinery: (506) 202-3000

E-mail

Not available.

Emergency phone number

1-800-424-9300 (CHEMTREC)

Supplier

See above.

2. Hazard identification

Physical hazards

Health hazards

Not classified.

Carcinogenicity

Category 2

Environmental hazards

Not classified

Label elements



Signal word

Warning

Hazard statement

Suspected of causing cancer.

Precautionary statement

Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and face protection.

Response

IF exposed or concerned: Get medical attention.

Storage

Store locked up.

Disposal

Dispose of container in accordance with local, regional, national and international regulations.

Other hazards

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Asphalt		8052-42-4	80 - 100
Sulphur		7704-34-9	1 - 5
Hydrogen sulphide		7783-06-4	< 0.1

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments

*Asphalt is a complex mixture of high molecular weight hydrocarbons. Its exact composition depends on the source of the crude oil from which it was produced and the refining methods used. This product may contain small amounts of Hydrogen sulphide which may accumulate in confined spaces.

	4. First-aid measures	
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. For breathing difficulties, oxygen may be necessary.	
Skin contact	In case of contact with molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product from skin because skin will tear easily. Cover wound with sterile dressing.	
Eye contact	If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately. Remove contact lenses, if applicable, and continue flushing. Get medical attention immediately.	
Ingestion	Rinse mouth. Do not induce vomiting. Obtain medical attention.	
Most important symptoms/effects, acute and delayed	Direct contact can product thermal burns. Inhalation of vapour can cause respiratory tract irritation or chemical burns. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. In high concentrations, hydrogen sulphide may produce pulmonary edema and respiratory depression or paralysis. Dusts may irritate the respiratory tract, skin and eyes.	
Indication of immediate medical attention and special treatment needed	Symptoms may be delayed.	
General Information	IF exposed or concerned: Get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin.	
	Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.	
	5. Fire-fighting measures	
Sultable extinguishing media	Carbon dioxide. Dry chemical. Water spray. Foam.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	Vapors will ignite and burn at temperatures exceeding the flash point.	
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Polycyclic aromatic hydrocarbons (PAHs). Hydrogen sulphide.	
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet vs face shield, gloves, rubber boots, and in enclosed spaces, SCBA. In the event of fire, wear self-contained breathing apparatus.	
Fire fighting equipment/instructions	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. Use water spray to cool unopened containers.	
General fire hazards	If product is heated above its flash point it will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to ignition source.	
	6. Accidental release measures	
Personal precautions, protective equipment and emergency procedures	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.	
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. Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Leave the molten product to cool down. Remove solidified product mechanically. Following product recovery, flush area with water. Prevent entry into waterways, sewers, basements or confined areas.	
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.	
	7. Handling and storage	
Precautions for safe handling	Avoid contact with hot material. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect	

Avoid contact with not material.

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.

Avoid contact with eyes, skin and clothing.

Use personal protective equipment as required.

Avoid prolonged exposure.

Use only with adequate ventilation.

Observe good industrial hygiene practices.
Wash thoroughly after handling.
When handling, do not eat, drink or smoke.

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Store locked up.
Keep away from heat, sparks and open flame.
Store in a well-ventilated place.
Store away from incompatible materials (see Section 10 of the SDS).
Keep out of reach of children.

	8. Exposure controls/Pe	sonal protection	
upational exposure limits			
US. ACGIH Threshold Limit Value	_	Matria	E
Components	Туре	Value	Form
Asphalt (CAS 8052-42-4)	TWA	0.5 mg/m3	Inhalable fume.
Hydrogen sulphide (CAS 7783-06-4)	STEL	5 ppm	
	TWA	1 ppm	
Canada. Alberta OELs (Occupatio	onal Health & Safety Code, Sch	edule 1, Table 2)	
Components	Туре	Value	Form
Asphalt (CAS 8052-42-4)	TWA	5 mg/m3	Fume.
Hydrogeл sulphide (CAS 7783-06-4)	Ceiling	21 mg/m3	
		15 ppm	
	TWA	14 mg/m3 10 ppm	
Sulphur (CAS 7704-34-9)	TWA	10 mg/m3	
Canada. British Columbia OELs. (Safety Regulation 296/97, as ame		s for Chemical Substances, C	occupational Health and
Components	Туре	Value	Form
Asphalt (CAS 8052-42-4)	TWA	0.5 mg/m3	Aerosol, inhalable.
Hydrogen sulphide (CAS 7783-06-4)	Ceiling	10 ppm	
Canada. Manitoba OELs (Reg. 21)	7/0000 The Westerle - 0-4-4-		
` •	Type	And Health Act) Value	Form
Components	, ,	,	Form Inhalable fume
Components Asphalt (CAS 8052-42-4) Hydrogen sulphide (CAS	Туре	Value	
Components Asphalt (CAS 8052-42-4) Hydrogen sulphide (CAS	Type TWA	Value 0.5 mg/m3	
Components Asphalt (CAS 8052-42-4) Hydrogen sulphide (CAS 7783-06-4)	Type TWA STEL	Value 0.5 mg/m3 5 ppm	
Components Asphalt (CAS 8052-42-4) Hydrogen sulphide (CAS 7783-06-4) Canada - New Brunswick	Type TWA STEL	Value 0.5 mg/m3 5 ppm	
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Components Asphalt (CAS 8052-42-4) Hydrogen sulphide (CAS 7783-06-4) Canada - New Brunswick Components Hydrogen sulphide (CAS 7783-06-4) Canada. Ontario OELs. (Control of Components Asphalt (CAS 8052-42-4) Hydrogen sulphide (CAS	Type TWA STEL TWA Type STEL TWA of Exposure to Biological or Cl Type TWA STEL TWA STEL TWA of Labor - Regulation respecti	Value 0.5 mg/m3 5 ppm 1 ppm Value 21 mg/m3 15 ppm 14 mg/m3 10 ppm nemical Agents) Value 0.5 mg/m3 15 ppm 10 ppm	Form Inhalable fraction. afety) Form
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Components	s (Occupational Health and Safety Re Type	Value	Form	
Asphalt (CAS 8052-42-4)	15 minute	1.5 mg/m3	Inhalable fraction.	
	8 hour	0.5 mg/m3	Inhalable fraction.	
Hydrogen sulphide (CAS 7783-06-4)	15 minute	15 ppm		
	8 hour	10 ppm		
liological limit values	No biological exposure limits noted for	the ingredient(s).		
xposure guidelines	Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.			
ppropriate engineering ontrols	Mechanical ventilation should be used exhaust ventilation may be necessary.		n enclosed spaces. Local	
idividual protection measures, s	such as personal protective equipme	nt		
Eye/face protection	Face shield or chemical goggles.			
Skin protection				
Hand protection	Heat-protective gloves. Confirm with a reputable supplier first.			
Other	For molten product, use any type rubber thermal insulating gloves and other clothing as necess to protect from thermal burns. If clothing or footwear becomes contaminated with the product, remove it immediately and completely decontaminate it before re-use, or discard it.			
Respiratory protection	Do not attempt rescue of an hydrogen sulfide knockdown victim without the use of proper respiratory protective equipment. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).			
Thermal hazards	Not available.			
ieneral hygiene onsiderations	Handle in accordance with good indus breaks and immediately after handling	trial hygiene and safety practi the product. When using, do	ices. Wash hands before not eat, drink or smoke.	
	9. Physical and chemic	al properties		
ppearance	Solid at room temperature. Viscous iq	uid above 194°F (90°C).		
hysical state	Liquid.			
orm	Solid at room temperature. Viscous liquid above 194°F (90°C).			
olour	Black			
Odour	Note: H2S deadens the sense of smell. Absence of rotten eggs smell does not mean absence H2S. Rotten egg.			
dour threshold	Not available.			
Н	Not available.			
leiting point/freezing point	Not available.			
nitial boiling point and boiling ange	Not available.			
lash point	Not available.			
vaporation rate	Not available.			
lammability (solid, gas)	Flammable solid.			
pper/lower flammability or explo	osive limits			
Flammability limit - lower (%)	Not available.			
Flammability limit - upper	Not available.			
(%)				
	Not available.			
(%)	Not available. Not available.			
(%) Explosive limit - lower (%) Explosive limit - upper				
(%) Explosive limit - lower (%) Explosive limit - upper (%)	Not available.			
(%) Explosive limit - lower (%) Explosive limit - upper (%) (apour pressure	Not available.			
(%) Explosive limit - lower (%) Explosive limit - upper (%) (%) sapour pressure	Not available. Not available.			

Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature Decomposition temperature

Not available Not available.

Viscosity

Not available.

10. Stability and reactivity

Reactivity

Not available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous polymerisation does not occur.

Conditions to avoid

Do not mix with other chemicals. Heat, open flames, static discharge, sparks and other ignition

sources.

Incompatible materials

Hazardous decomposition

Oxidizers

products

May include and are not limited to: Oxides of nitrogen. Oxides of carbon. Polycyclic aromatic

hydrocarbons (PAHs). Hydrogen sulphide.

11. Toxicological information

Information on likely routes of exposure

Inhalation

Inhalation of vapours/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing. Sense of smell may be impaired at concentrations of hydrogen sulphide at approximately 20 ppm, with headache and respiratory tract lung irritation. At 250 to 500pm, potentially fatal pulmonary edema may occur. Dizziness, sudden (often fatal) collapse, unconsciousness and death occur at higher concentrations.

Pulmonary edema may be delayed as long as 48 hours after exposure.

Skin contact

Second and third degree burns from contact with hot asphalt.

Eye contact

Fumes released during thermal processing may cause eye irritation.

Ingestion

Not a normal route of exposure. Contact with molten material may cause thermal burns. May

cause stomach distress, nausea or vomiting.

Symptoms related to the physical, chemical and toxicological characteristics Contact with molten material may cause thermal burns.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Asphalt (CAS 8052-42-4)		
Acute		
<i>Dermal</i> LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Rat	> 94.4 mg/m3, 4.5 Hours, ECHA
Oral		
LD50		> 5000 mg/kg, ECHA
Hydrogen sulphide (CAS 7)	783-06-4)	

Acute

Dermal

LD50

Not availab e

Inhalation

LC50

Mouse

634 ppm, 1 Hours, ECHA

Rat

> 0.4 mg/L, 960 Minutes, HSDB 712 ppm, 1 Hours, HSDB/ECHA

356 ppm, 4 Hours, EIGA

Oral

LD50

#33052

Not available

Components	Species		Test Results	
Sulphur (CAS 7704-34-9)				
Acute				
Dermal				
LD50	Plat		> 2000 mg/kg, 24 Hours, ECHA	
Inhalation	Dat			
LC50	Rat		> 9.2 mg/l/4h, Spectrum Chemical	
			> 5.4 g/m³, 4 Hours, ECHA	
			> 5.4 mg/L, 4 Hours, ECHA	
Oral .	. .			
LD50	Rat		> 5000 mg/kg, Sigma	
			> 2200 mg/kg, ECHA	
Skin corresion/irritation	Thermal bur	n hazard - contact with hot material ma	ay cause thermal burns.	
Exposure minutes	Not available.			
Erythema value	Not available	Not available.		
Oedema value	Not available.			
Serious eye damage/eye irritation	Fumes relea	ased during thermal processing may ca	tuse eye irritation.	
Corneal opacity value	Not available	e .		
Iris lesion value	Not available	Not available.		
Conjunctival reddening value	Not available	Not available.		
Conjunctival oedema value	e Not available	9 .		
Recover days	Not available	9.		
Respiratory or skin sensitisation	on			
Canada - Alberta OELs: Irr	itant			
Asphalt (CAS 8052-42-4	4)	Irritant		
Respiratory sensitisation	Not available	€.		
Skin sensitisation	This product	is not expected to cause skin sensitis	ation	
Germ cell mutagenicity	Not c assifie			
Carcinogenicity	Suspected of	of causing cancer.		
IARC Monographs. Overall	Evaluation of	Carcinogenicity		
Asphalt (CAS 8052-42-4			ossibly carcinogenic to humans.	
Reproductive toxicity	Not classifie			
Specific target organ toxicity - single exposure	Not classifie	d.		
Specific target organ toxicity - repeated exposure	Not classifie	d.		
Aspiration hazard	Not available	a.		
Chronic effects	Prolonged inhalation may be harmful. Chronic exposure to vanadium may damage the kidneys Repeated high exposure to vanadium may cause anemia. Acne-like lesions. Pigmentation of s		osure to vanadium may damage the kidneys. nemla. Acne-like lesions. Pigmentation of skin	
Further information	Not available		•	
		12. Ecological information		
Ecotoxicity	See below			
Ecotoxicological data Components		Species	Test Results	
Hydrogen sulphide (CAS 7783-06	6-4)	All the latest and th		
Aquatic	•			
Fish	LC50	Bluegill (Lepomis macrochirus)	0.009 mg/L, 96 hours	
Sulphur (CAS 7704-34-9)		,		
Aquatic				
Fish	LC50	Western mosquitofish (Gambusia a	ffinis) > 10000 mg/L, 96 hours	
Persistence and degradability	No data is a	vailable on the degradability of this pro	*	
#33052				
muu-vule		Page: 6 of 8	Innua data 04 March 2021	

Bioaccumulative potential

Mobility in soil

No data available.

Mobility in general

No data 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

Allow product to cool and solidify. 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.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a sate manner (see: Disposed instructions)

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

General

Canada: TDG Proof of Classification: Classification Method; Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

As per TDG Part 2, Section 2.43:

A substance is included in Class 9, Miscellaneous Products, Substances or Organisms, if it:

(b) is not included in Class 9 in column 3 of Schedule 1 and does not meet the criteria for inclusion in any of Classes 1 to 8 and

(iii) except for asphalt or tar, is offered for transport or transported at a temperature greater than or equal to 100°C if it is in a liquid state or at a temperature greater than or equal to 240°C if it is in a solid state.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (SOR/2015-17) and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS status

Hazardous

International regulations

Hazardous

Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

Canada

Domestic Substances List (DSL)

Yes No

Canada Non-Domestic Substances List (NDSL)

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

16. Other information

LEGEND)
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALT) * 2

GRAMMABILITY 1

PHYSICAL HAZARD 0

PERSONAL X



Issue date Revision date 04-March-2021 04-March-2021

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Other information

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (SOR/2015-17) and the SDS contains all the information required by the HPR. For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document

Disclaimer

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