Safety data sheet as per Commission Regulation (EU) 2020/878
Product: Additiv 4040

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

1.1 Product identifier

Trade name **Additiv 4040/ TBN Booster**

Chemical Name Benzenesulfonic acid, C14-44-branched and linear alkyl derivs., calcium salts, overbased

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

Relevant identified uses Additive for motor oils, for professional and industrial use.

Uses identified against Food additive, medicinal products, cosmetic products

1.3 Details of the supplier of the safety data sheet:

Manufacturer: Prasol Chemicals Limited (Formerly known as Prasol Chemicals Private Limited)
Prasol House, Plot No.A-17/2/3,
T.T.C. Industrial Area, Khairne M.I.D.C.,
Navi Mumbai - 400 710.
Maharashtra, India.

Telephone: +91-22-69450600/ 61952500

Telefax: +91-22-61952577

e-mail address: sales@prasolchem.com; inquiry@prasolchem.com

1.4 Emergency telephone number

Telephone: +91-22- 7045783555/7045790555

Language: English

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Eye Irritation Category 2 H319 Causes serious eye irritation

Information concerning particular hazards for human and environment: No further information

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms

GHS07

Signal word	Warning	
Hazard statements	H319	Causes serious eye irritation
Precautionary statements		
General	P103	Read label before use.
Prevention	P264	Wash hands thoroughly after handling.
	P280	Use protective gloves and eye protection.
Response	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 occurs: Get medical attention.
Storage	-	
Disposal	P501	Dispose of contents and container in accordance with national regulations

2.3 Other hazards

Not a PBT, vPVB substance according to the criteria of Annex XIII to REACH regulation

Not having endocrine disruptive properties as per criteria of Delegated Regulations (EC) 2017/2100 or (EC) 2018/605

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: not applicable

3.2 Mixtures:

Ingredient	CAS No.	EC No.	Concentration (%)
Calcium sulphonate (Benzenesulphonic acid, C14-44-branched and linear alkyl derivs., calcium salts)	91696-74-1	294-233-7	35-45
Distillates (petroleum), solvent refined heavy paraffinic	64741-88-4	265-090-8	55-65

Additional information:

Molecular Formula not applicable (UVCB)

Molecular Weight not applicable (UVCB)

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no other ingredients present, which are classified as hazardous and hence require reporting in this section.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information	Consult a physician. Remove from exposure, lie down. Never give anything by mouth to an unconscious person.
After inhalation	After inhalation of vapours during processing, remove the patient to fresh air at once.
After skin contact	Take off all contaminated clothing immediately. If symptoms persist, call a physician. Wash off immediately with soap and plenty of water.
After eye contact	Rinse immediately with plenty of water and seek medical advice.
After swallowing	Do not induce vomiting and seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed — Headache, dizziness, nausea, eye irritation

4.3 Indication of any immediate medical attention and special treatment needed — Treat symptomatically and supportively

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	CO_2, dry powder, foam , water spray
Unsuitable extinguishing media	water jet

5.2 Special hazards arising from the substance or mixture — The generation of hazardous combustion products depends largely on the circumstances of combustion. It may for a complex mixture of solid, liquid and gaseous substances, such as carbon monoxide, carbon dioxide, oxides of sulphur and other unidentified chemical mixtures.
Inhalation of vapours formed during the fire and inhalation of combustion products can cause serious health problems..
Containers may explode when heated.

5.3 Advice for firefighters — Cool closed containers exposed to fire with water spray.
Wear positive pressure self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures — Use personal protective equipment. Do not touch or walk through spilled material.
Avoid breathing vapours, mist or gas formed during processing.
Ensure adequate ventilation

6.2 Environmental precautions — Do not allow to enter sewers, surface or ground water.

6.3 Methods and material for containment and cleaning up — Soak up with inert absorbent material and dispose of as hazardous waste.
Keep in suitable, closed containers for disposal.
Suitable binder: sand

6.4 Reference to other sections — Section 8 for information on personal protection equipment.
Section 13 for disposal information

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling — If possible, use material transfer, metering and blending plants that are closed.
Avoid contact with skin and eyes.
Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion	Eliminate all ignition sources. Do not smoke or use flares, sparks or flames in immediate area. Protect against electrostatic charges.
Storage	Steel tanks. Local exhaust ventilation should be applied wherever there is an incidence of point source emissions or dispersion of regulated contaminants in the work area. Maximum storage temperature: 40 °C Maximum temperature of heating at use: 80 °C Shelf life of the product: 1 year from the date of manufacturing.
Packaging material	Mild steel or stainless steel
Incompatibility	None known
Advice on common storage	Observe prohibition against storing together!
Storage stability	Maximum Storage Temperature: 40°C

7.3 Specific end use(s) — No further relevant information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limit: Mineral oils: Maximal limit value: 8 h: 5 mg/m3; Short term: 10 mg/m3

8.2 Exposure controls

Appropriate engineering controls: If possible, use material transfer, metering and blending plants that are closed

Personal protective equipment

Eye/ face protection: closed goggles, face shield

Skin protection

Hand protection:

Type of material	Thickness	Breakthrough time
Butyl-rubber	0.5 mm	> 480 min
Polychloroprene (PCP)	0.5 mm	110 min

Body protection: Boots, body suit

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.Avoid inhaling vapours.

Thermal hazards: Possibility of decomposition on excess heating

Industrial hygiene: Avoid contact with skin and eyes.
Remove immediately all contaminated clothing.
Keep working clothes separately.
Smoking, eating and drinking should be prohibited in the application area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Dark brown viscous liquid
Odour	odourless
Odour threshold	not applicable available
pH	no data available
Melting point	-20°C (pour point)
Boiling point	>450°C
Flash point	180°C (closed cup)
Evaporation rate	not determined
Flammability (solid, gas)	not applicable (product is a liquid)
Flammability limits	no data available
Vapour pressure	4.2 x 10^{-3}Paat 25°C
Vapour density	not determined
Relative density	1.2 g/ml at 20°C
Solubility in water	1.91 x 10^{-3}g/l at 20°C
Partition coefficient	15.5 log Pow
Ignition temperature	392°C
Decomposition temperature	no data available
Viscosity (dynamic)	75cSt at 100 °C
Particle characteristics	Not applicable (substance is a liquid)

9.2 Other information: Material is produced, supplied and marketed in the presence of a liquid mineral oil solvent.

Explosive properties: no explosive properties

Oxidizing properties: no oxidizing properties

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	No hazardous reaction when handled and stored according to provisions.
10.2 Chemical stability	Under storage at normal ambient temperatures (-40°C to +40°C), the product is stable.
10.3 Possibility of hazardous reactions	No known hazardous reaction
10.4 Conditions to avoid	High temperatures over 50°C or sources of ignition.
10.5 Incompatible materials	Explosive substances, compressed, liquefied or pressurized gases, flammable substances or strong oxidizing substances.
10.6 Hazardous decomposition products	carbon and nitrogen oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Distillates (petroleum), solvent-refined heavy paraffinic (CAS: 64741-88-4):

Acute toxicity

LD50	oral	rat	>5000mg/kg bw	not classified
LC50	inhalation	rat	>5000mg/m^3	not classified
LD50	Dermal	rabbit	>2000mg/kg bw	not classified

Skin irritation	slightly irritating
Serious eye irritation	not irritating
Respiratory or skin sensitization	non-sensitizing to skin
Germ cell mutagenicity	non mutagenic (Ames test)
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	NOAEL 1000 mg /kg. (28 days) on rabbit skin NOAEL, inhalation, local effect > 280 mg/m^3 NOAEL systemic effect > 980mg/m^3 NOAEL Dermal > 2000 mg/kg 90 days sub-chronic toxicity test

Calcium sulphonate (Benzenesulphonic acid, C14-44-branched and linear alkyl derivs., calcium salts) (CAS: 91696-74-1)

Acute toxicity

LD50	oral	rat	>25mg/kg bw	not classified
LC50	inhalation	rat	No specific information available	
LDL50	Dermal	rabbit	>10mg/kg bw	not classified

Skin irritation	not irritating
Serious eye irritation	causes serious eye irritation
Respiratory or skin sensitization	non-sensitizing
Germ cell mutagenicity	non mutagenic (Ames test)
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	NOAEL oral 500 mg /kg bw/ day, rat, 28 days NOAEL, inhalation, 49.5 mg/m^3, rat, 28 days NOAEL Dermal > 1000 mg/kg

11.2 Information on other hazards

Endocrine disrupting properties	No endocrine disrupting properties
Other information	No further information

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Distillates (petroleum), solvent-refined heavy paraffinic (CAS: 64741-88-4):

Aquatic toxicity

Toxicity to fish	LLC50	96h	100 mg/l	*Pimephales promelas*
Toxicity to aquatic invertebrates	EL50	48h	10,000 mg/l	*Daphnia magna*
Toxicity to aquatic algae and cyanobacteria	NOEL	72h	>100mg/l	*Pseudokirchneriella subcapitata*
Toxicity to microorganisms	NOEL	4d	>1,93 mg/l	*Photobacterium phosphoreum*

Calcium sulphonate (Benzenesulphonic acid, C14-44-branched and linear alkyl derivs., calcium salts) (CAS:91696-74-1):

Aquatic toxicity

Toxicity to fish	LL50	96h	10,000 mg/l	*Cyprinodon variegatus*
Toxicity to aquatic invertebrates	EL50	48h	>1000 mg/l	*Daphnia magna*
Toxicity to aquatic algae and cyanobacteria	NOEL	72h	>1000mg/l	*Pseudokirchneriella subcapitata*
Toxicity to microorganisms	NOEC	4d	>1000mg/l	activated sludge

12.2 Persistence and degradability

Biodegradation

Distillates (petroleum), solvent-refined heavy paraffinic (CAS: 64741-88-4)	Not readily biodegradable
Calcium sulphonate (Benzenesulphonic acid, C14-44-branched and linear alkyl derivs.,	8.6% after 28days. The substance is not biodegradable.

	calcium salts) (CAS:91696-74-1)	
12.3	**Bioaccumulative potential**	
	Distillates (petroleum), solvent-refined heavy paraffinic (CAS: 64741-88-4)	It is expected that the product is bioaccumulable.
	Calcium sulphonate (Benzenesulphonic acid, C14-44-branched and linear alkyl derivs., calcium salts) (CAS:91696-74-1)	BCF 104; not expected to bioaccumulate
12.4	**Mobility in soil**	
	Distillates (petroleum), solvent-refined heavy paraffinic (CAS: 64741-88-4)	Mobility in soil: It is absorbed in soil. Mobility in water: The product is not soluble in water. In case of accidental spillage, it forms a film on the surface of the water affecting the normal oxygen transfer from water.
	Calcium sulphonate (Benzenesulphonic acid, C14-44-branched and linear alkyl derivs., calcium salts) (CAS:91696-74-1)	Mobility in water: The product is not soluble in water. Mobility in soil: It is absorbed into the soil and ground waters and can cause their infestation.
12.5	**Results of PBT and vPvB assessment**	Not a PBT, vPvB substance according to the REACH regulation
12.6	**Endocrine disrupting properties**	No endocrine disrupting properties
12.7	**Other adverse effects**	This product is not expected to cause environmental problems other than those associated with accidental spills.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Observe all national, state and local environmental regulations.
	Product disposal	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
	Packaging disposal	Clean container with water. Recover waste water for processing later. Destroy packaging by incineration at an approved waste disposal site.
	Sewage disposal	Do not dispose in sewage.

SECTION 14: TRANSPORT INFORMATION

		ADR/RID	IMDG	ICAO/IATA
14.1	**UN Number**	-	-	-
14.2	**UN proper shipping name**	Not Dangerous Goods		
14.3	**Transport hazard class**	-	-	-
14.4	**Packaging group**	-	-	-
14.5	**Environmental hazards**	not a marine pollutant		
14.6	**Special precautions for the user**	no further information		
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	See regulatory information for transport approval		

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Major accident hazard	**Seveso III**	no

International Chemical Inventory Status

USA (TSCA)	listed
Canada (DSL)	listed
Australia (AICS)	listed
Japan (MITI)	listed
Korea (KECL)	listed
Philippines (PICCS)	listed
China	listed
New Zealand	listed
Taiwan	listed

15.2 Chemical safety assessment A Chemical Safety Assessment will be carried out at the time of REACH registration

◆ SECTION 16: OTHER INFORMATION

Indication of changes: Sections in which changes have been made since the last version are marked with a diamond ◆ in the left hand margin.

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Classification for Labeling and Packaging
DSL	Domestic Substances List
EC	European Commission
EC50	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IATA	International Air Transport Association
IBC	International Bulk Chemical
ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
KECL	Korea Existing Chemicals List
KOC	Soil adsorption coefficient
KOW	Partition Coefficient octanol-water
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Pollution from Ships
MITI	Ministry of International Trade and Industry
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
PBT	Persistent, bioaccumulative and toxic substances
PICCS	Philippine Inventory of Chemicals and Chemical Substances
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT	Specific target organ toxicity
TSCA	Toxic Substances Control Act
UN	United Nations
vPVB	(very) Persistent, (very) Bioaccumulative

Key literature references and sources for data
Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH))

ECHA https://echa.europa.eu/registration-dossier/-/registered-dossier/2231

-End of safety data sheet-