

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version 4.0      Revision Date: 04/23/2021      SDS Number: 800001031763      Print Date: 04/23/2021  
Date of last issue: 06/13/2018

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### SECTION 1. IDENTIFICATION

Product name : SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Product code : 002D2790

#### Manufacturer or supplier's details

Manufacturer/Supplier : **Equilon Enterprises LLC dba**  
Shell Oil Products US  
PO Box 4453  
HOUSTON TX 77210-4453  
USA

SDS Request : (+1) 877-276-7285  
Customer Service :

#### Emergency telephone number

Spill Information : +1-877-504-9351  
Health Information : +1-877-242-7400

#### Recommended use of the chemical and restrictions on use

Recommended use : Fuel for spark ignition engines designed to run on unleaded fuel.

Restrictions on use : This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier., This product is designed only to suit automotive applications and no provision is made for the requirements of aviation applications., This product is not to be used as a solvent or cleaning agent; for lighting or brightening fires; as a skin cleanser.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 1  
Skin irritation : Category 2  
Aspiration hazard : Category 1  
Reproductive toxicity : Category 2  
Germ cell mutagenicity : Category 1B  
Carcinogenicity : Category 1B

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

Specific target organ toxicity : Category 3 (Narcotic effects)  
- single exposure (Inhalation)

Long-term (chronic) aquatic : Category 2  
hazard

### GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : PHYSICAL HAZARDS:  
H224 Extremely flammable liquid and vapour.  
HEALTH HAZARDS:  
H315 Causes skin irritation.  
H304 May be fatal if swallowed and enters airways.  
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H336 May cause drowsiness or dizziness.  
ENVIRONMENTAL HAZARDS:  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P201 + P202 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

at rest in a position comfortable for breathing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P331 Do NOT induce vomiting.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use appropriate media to extinguish.  
P391 Collect spillage.

### Storage:

P235 Keep cool.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

Moderately irritating to eyes.  
Slightly irritating to respiratory system.  
Liquid evaporates quickly and can ignite leading to a flash fire, or an explosion in a confined space.  
This product contains benzene which may cause leukaemia (AML - acute myelogenous leukaemia).  
This material is a static accumulator.  
Even with proper grounding and bonding, this material can still accumulate an electrostatic charge.  
If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur.  
May cause MDS (Myelodysplastic Syndrome).  
The classification of this material is based on OSHA HCS 2012 criteria.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Contains oxygenated hydrocarbons, including ethanol or other alcohols.  
May also contain several additives at <0.1% v/v each.

### Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
gasoline	Gasoline	Not Assigned	>= 90 - <= 100
Ethanol	ethanol (Solu-	64-17-5	>= 9 - <= 10

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

tion)

Dyes and markers can be used to indicate tax status and prevent fraud.

### Further information

Contains:

Chemical name	Identification number	Concentration (% w/w)
n-Hexane	110-54-3	>= 0 - <= 3
Xylene, mixed isomers	1330-20-7	>= 0 - <= 24.99
Trimethylbenzene (all isomers)	25551-13-7	>= 0 - <= 4.99
Benzene	71-43-2	>= 0 - <= 4
Naphthalene	91-20-3	>= 0 - <= 0.99
Cyclohexane	110-82-7	>= 0 - <= 0.99
Cumene	98-82-8	>= 0 - <= 0.5
Toluene	108-88-3	>= 0 - <= 24.99
Ethylbenzene	100-41-4	>= 0 - <= 2.99

## SECTION 4. FIRST-AID MEASURES

- General advice : Not expected to be a health hazard when used under normal conditions.
- If inhaled : Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
- In case of skin contact : Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.  
When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop.  
Obtain medical attention even in the absence of apparent wounds.
- In case of eye contact : Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing.  
If persistent irritation occurs, obtain medical attention.
- If swallowed : Call emergency number for your location / facility.  
If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.  
If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.
- Most important symptoms : Breathing of high vapour concentrations may cause central

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
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SDS Number:  
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Print Date: 04/23/2021  
Date of last issue: 06/13/2018

and effects, both acute and delayed

nervous system (CNS) depression resulting in dizziness, light-headedness, headache and nausea.  
The onset of respiratory symptoms may be delayed for several hours after exposure.  
Skin irritation signs and symptoms may include a burning sensation, redness, or swelling.  
Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection.  
Eye irritation signs and symptoms may include a burning sensation and a temporary redness of the eye.  
If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.  
If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

Protection of first-aiders

: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.

Indication of any immediate medical attention and special treatment needed

: **IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT!**  
Treat symptomatically.  
Call a doctor or poison control center for guidance.  
High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function.  
Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anaesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anaesthetics, and wide exploration is essential.  
Potential for chemical pneumonitis.  
Do not induce vomiting.

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

: Alcohol-resistant foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

: Do not use direct water jets on the burning product as they could cause a steam explosion and spread of the fire.  
Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Specific hazards during fire-fighting

: Hazardous combustion products may include:  
A complex mixture of airborne solid and liquid particulates and gases (smoke).  
Carbon monoxide may be evolved if incomplete combustion

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

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- occurs.  
Unidentified organic and inorganic compounds.  
The vapour is heavier than air, spreads along the ground and distant ignition is possible.  
Will float and can be reignited on surface water.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Keep adjacent containers cool by spraying with water.  
If possible remove containers from the danger zone.  
If the fire cannot be extinguished the only course of action is to evacuate immediately.  
Contain residual material at affected sites to prevent material from entering drains (sewers), ditches, and waterways.  
  
Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Special protective equipment for firefighters : Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Do not breathe fumes, vapour.  
Do not operate electrical equipment.  
Shut off leaks, if possible without personal risks.  
Remove all possible sources of ignition in the surrounding area.  
Evacuate all personnel.  
Attempt to disperse vapour or to direct its flow to a safe location for example using fog sprays.  
Vapour can travel for considerable distances both above and below the ground surface. Underground services (drains, pipelines, cable ducts) can provide preferential flow paths.
- Environmental precautions : Take measures to minimise the effects on groundwater.  
Contain residual material at affected sites to prevent material from entering drains (sewers), ditches, and waterways.  
Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.  
  
Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Take precautionary measures against static discharges.  
For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
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Revision Date:  
04/23/2021

SDS Number:  
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Print Date: 04/23/2021  
Date of last issue: 06/13/2018

safely. Remove contaminated soil and dispose of safely. For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Avoid contact with skin, eyes and clothing.  
Evacuate the area of all non-essential personnel.  
Ventilate contaminated area thoroughly.  
If contamination of site occurs remediation may require specialist advice.  
Take precautionary measures against static discharges.  
Ensure electrical continuity by bonding and grounding (earthing) all equipment.  
Observe all relevant local and international regulations.

### Additional advice

: For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.  
Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.  
For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.  
Local authorities should be advised if significant spillages cannot be contained.

Maritime spillages should be dealt with using a Shipboard Oil Pollution Emergency Plan (SOPEP), as required by MARPOL Annex 1 Regulation 26.

U.S. regulations may require reporting releases of this material to the environment which exceed the reportable quantity (refer to Section 15) to the National Response Center at (800) 424-8802.

Under Section 311 of the Clean Water Act (CWA) this material is considered an oil. As such, spills into surface waters must be reported to the National Response Center at (800) 424-8802.

This material is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Petroleum Exclusion. Therefore, releases to the environment may not be reportable under CERCLA.

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## SECTION 7. HANDLING AND STORAGE

### Technical measures

: Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.  
Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

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- Air-dry contaminated clothing in a well-ventilated area before laundering.  
Prevent spillages.  
Turn off all battery operated portable electronic devices (examples include: cellular phones, pagers and CD players) before operating gasoline pump.  
Do not use as a cleaning solvent or other non-motor fuel uses.  
Contaminated leather articles including shoes cannot be decontaminated and should be destroyed to prevent reuse.  
Ensure that all local regulations regarding handling and storage facilities are followed.
- Advice on safe handling : Ensure that all local regulations regarding handling and storage facilities are followed.  
When using do not eat or drink.  
Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks.  
Never siphon by mouth.  
The vapour is heavier than air, spreads along the ground and distant ignition is possible.  
Avoid exposure.  
Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.  
Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.
- Avoidance of contact : Strong oxidising agents.
- Product Transfer : Wait 2 minutes after tank filling (for tanks such as those on road tanker vehicles) before opening hatches or manholes. Wait 30 minutes after tank filling ( for large storage tanks) before opening hatches or manholes. Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. Be aware of handling operations that may give rise to additional hazards that result from the accumulation of static charges. These include but are not limited to pumping (especially turbulent flow), mixing, filtering, splash filling, cleaning and filling of tanks and containers, sampling, switch loading, gauging, vacuum truck operations, and mechanical movements. These activities may lead to static discharge e.g. spark formation. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$  m/s until fill pipe submerged to twice its diameter, then  $\leq 7$  m/s). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations.
- Further information on storage stability : Drum and small container storage:  
Keep containers closed when not in use.  
Drums should be stacked to a maximum of 3 high.  
Packaged product must be kept tightly closed and stored in a diked (bunded) well-ventilated area, away from, ignition sources and other sources of heat.  
Use properly labeled and closable containers.



# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

Take suitable precautions when opening sealed containers, as pressure can build up during storage.

Tank storage:

Tanks must be specifically designed for use with this product.

Bulk storage tanks should be diked (bunded).

Locate tanks away from heat and other sources of ignition.

Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions.

Keep in a cool place.

Electrostatic charges will be generated during pumping.

Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk.

The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.

Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.

Packaging material : Suitable material: For containers, or container linings use mild steel, stainless steel., Aluminium may also be used for applications where it does not present an unnecessary fire hazard., Examples of suitable materials are: high density polyethylene (HDPE), polypropylene (PP), and Viton (FKM), which have been specifically tested for compatibility with this product., For container linings, use amine-adduct cured epoxy paint., For seals and gaskets use: graphite, PTFE, Viton A, Viton B.  
Unsuitable material: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Examples of materials to avoid are: natural rubber (NR), nitrile rubber (NBR), ethylene propylene rubber (EPDM), polymethyl methacrylate (PMMA), polystyrene, polyvinyl chloride (PVC), polyisobutylene., However, some may be suitable for glove materials.

Container Advice : Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers. Gasoline containers must not be used for storage of other products.

Specific use(s) : Not applicable.

See additional references that provide safe handling practices for liquids that are determined to be static accumulators: American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practices on Static Electricity).  
IEC/TS 60079-32-1: Electrostatic hazards, guidance

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

### SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
gasoline	Not Assigned	TWA	300 ppm	ACGIH
gasoline		STEL	500 ppm	ACGIH
Toluene	108-88-3	TWA	20 ppm	ACGIH
Toluene		TWA	200 ppm	OSHA Z-2
Toluene		CEIL	300 ppm	OSHA Z-2
Toluene		Peak	500 ppm (10 minutes)	OSHA Z-2
Xylene	1330-20-7	TWA	100 ppm 435 mg/m3	OSHA Z-1
Xylene		TWA	100 ppm	ACGIH
Xylene		STEL	150 ppm	ACGIH
Xylene		STEL	150 ppm 655 mg/m3	OSHA P0
Xylene		TWA	100 ppm 435 mg/m3	OSHA P0
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH
Ethanol		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
Trimethylbenzene (all isomers)	25551-13-7	TWA	25 ppm	ACGIH
<b>Benzene</b>	71-43-2	<b>TWA</b>	<b>0.25 ppm 0.8 mg/m3</b>	<b>Shell Internal Standard (SIS) for 8-12 hour TWA.</b>
Benzene		STEL	2.5 ppm 8 mg/m3	Shell Internal Standard (SIS) for 15 min (STEL)
Benzene		TWA	0.5 ppm	ACGIH
Benzene		STEL	2.5 ppm	ACGIH
Benzene		PEL	1 ppm	OSHA CARC
Benzene		STEL	5 ppm	OSHA CARC
Benzene		TWA	10 ppm	OSHA Z-2
Benzene		CEIL	25 ppm	OSHA Z-2
Benzene		Peak	50 ppm (10 minutes)	OSHA Z-2
n-Hexane	110-54-3	TWA	500 ppm 1,800 mg/m3	OSHA Z-1
n-Hexane		TWA	50 ppm	ACGIH
Ethylbenzene	100-41-4	TWA	20 ppm	ACGIH
Ethylbenzene		TWA	100 ppm 435 mg/m3	OSHA Z-1
Cyclohexane	110-82-7	TWA	100 ppm	ACGIH
Cyclohexane		TWA	300 ppm 1,050 mg/m3	OSHA Z-1
Naphthalene	91-20-3	TWA	10 ppm	OSHA Z-1

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

			50 mg/m3	
Naphthalene		TWA	10 ppm	ACGIH
Cumene	98-82-8	TWA	50 ppm 245 mg/m3	OSHA Z-1
Cumene		TWA	50 ppm	ACGIH

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentra-tion	Basis
Toluene	108-88-3	Toluene	In blood	Prior to last shift of work-week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ACGIH BEI
Xylene	1330-20-7	Methylhip-puric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g cre-atinine	ACGIH BEI
Benzene	71-43-2	S-Phenylmer-capturic acid	Urine	End of shift (As soon as possible after exposure ceases)	25 µg/g creatinine	ACGIH BEI
		t,t-Muconic acid	Urine	End of shift (As soon as possible after exposure ceases)	500 µg/g creatinine	ACGIH BEI
n-Hexane	110-54-3	2,5-Hexanedi-one	Urine	End of shift	0.5 mg/l	ACGIH BEI
Ethylbenzene	100-41-4	Sum of mandelic	Urine	End of shift (As	0.15 g/g creatinine	ACGIH BEI

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version 4.0      Revision Date: 04/23/2021      SDS Number: 800001031763      Print Date: 04/23/2021  
Date of last issue: 06/13/2018

		acid and phenyl glyoxylic acid		soon as possible after exposure ceases)		
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### Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory. Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.  
National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods <http://www.cdc.gov/niosh/>  
Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods <http://www.osha.gov/>  
Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances <http://www.hse.gov.uk/>  
Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA) , Germany <http://www.dguv.de/inhalt/index.jsp>  
L'Institut National de Recherche et de Sécurité, (INRS), France <http://www.inrs.fr/accueil>

**Engineering measures** : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:  
Use sealed systems as far as possible.  
Firewater monitors and deluge systems are recommended.  
Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.  
Local exhaust ventilation is recommended.  
Eye washes and showers for emergency use.

### General Information:

Consider technical advances and process upgrades (including automation) for the elimination of releases. Minimise exposure using measures such as closed systems, dedicated facilities and suitable general/local exhaust ventilation. Drain down systems and clear transfer lines prior to breaking containment. Clean/flush equipment, where possible, prior to maintenance. Where there is potential for exposure: restrict access to authorised persons; provide specific activity training to operators to minimise exposures; wear suitable gloves and coveralls to prevent skin contamination; wear respiratory protection when there is potential for inhalation; clear up spills immediately and dispose of wastes safely. Ensure safe systems of work or equivalent arrangements are in place to manage risks. Regularly inspect, test and maintain all control measures. Consider the need for risk based health surveillance.

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

Do not ingest. If swallowed, then seek immediate medical assistance

### Personal protective equipment

#### Respiratory protection

: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. All respiratory protection equipment and use must be in accordance with local regulations.

Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point >65°C (149°F)].

#### Hand protection Remarks

: Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Select gloves tested to a relevant standard (e.g. Europe EN374, US F739). When prolonged or frequent repeated contact occurs, Nitrile gloves may be suitable. (Breakthrough time of > 240 minutes.) For incidental contact/splash protection Neoprene, PVC gloves may be suitable.

#### Eye protection

: Wear goggles for use against liquids and gas. If a local risk assessment deems it so then chemical splash

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

goggles may not be required and safety glasses may provide adequate eye protection.

Skin and body protection : Wear chemical resistant gloves/gauntlets and boots. Where risk of splashing, also wear an apron.

Protective measures : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

### Environmental exposure controls

General advice : Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.  
Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Section 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water.  
Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Undyed

Odour : Not applicable

Odour Threshold : Data not available

pH : Not applicable

Boiling point/boiling range : 20 - 221.1 °C / 68 - 430.0 °F  
Method: Unspecified

Flash point : <= -40 °C / <= -40 °F  
Method: Unspecified

Evaporation rate : Data not available

Flammability (solid, gas) : Not applicable

Upper explosion limit / upper flammability limit : 8 %(V)

Lower explosion limit / Lower flammability limit : 1 %(V)

Vapour pressure : <= 53.78 kPa (38.0 °C / 100.4 °F)

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version 4.0      Revision Date: 04/23/2021      SDS Number: 800001031763      Print Date: 04/23/2021  
Date of last issue: 06/13/2018

---

	Method: Unspecified
	50 - 160 kPa (50.0 °C / 122.0 °F)
	Method: Unspecified
Relative vapour density	: Data not available
Relative density	: Data not available
Density	: 749.421 kg/m <sup>3</sup> (15.0 °C / 59.0 °F) Method: Unspecified
Solubility(ies)	
Water solubility	: Data not available
Solubility in other solvents	: Data not available
Partition coefficient: n-octanol/water	: log Pow: 2 - 7
Auto-ignition temperature	: > 250 °C / 482 °F
Decomposition temperature	: Data not available
Viscosity	
Viscosity, kinematic	: <= 1.4 mm <sup>2</sup> /s (40 °C / 104 °F) Method: Unspecified
Explosive properties	: Classification Code: Not classified
Oxidizing properties	: Not applicable
Conductivity	: Low conductivity: < 100 pS/m, The conductivity of this material makes it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10,000 pS/m., Whether a liquid is nonconductive or semiconductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: May oxidise in the presence of air.
Chemical stability	: Stable under normal conditions of use.
Possibility of hazardous reactions	: No hazardous reaction is expected when handled and stored according to provisions

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version 4.0      Revision Date: 04/23/2021      SDS Number: 800001031763      Print Date: 04/23/2021  
Date of last issue: 06/13/2018

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- Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources.  
In certain circumstances product can ignite due to static electricity.
- Incompatible materials : Strong oxidising agents.
- Hazardous decomposition products : Hazardous decomposition products are not expected to form during normal storage.  
Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

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### SECTION 11. TOXICOLOGICAL INFORMATION

- Basis for assessment : Information given is based on product testing, and/or similar products, and/or components. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

#### Information on likely routes of exposure

Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg  
Remarks: Low toxicity:

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Remarks: Low toxicity:

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg  
Remarks: Low toxicity:

Acute toxicity (other routes of administration) : Remarks: Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

##### Components:

##### Ethanol:

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5,000 mg/kg  
Method: Test(s) equivalent or similar to OECD Test Guideline 401  
Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC 50 (Rat, male and female): > 20 mg/l



# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

---

Exposure time: 4 h  
Test atmosphere: vapour  
Method: Test(s) equivalent or similar to OECD Test Guideline 403  
Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

### Skin corrosion/irritation

#### Product:

Remarks: Irritating to skin.

#### Components:

##### **Ethanol:**

Species: Rabbit

Method: Test(s) equivalent or similar to OECD Test Guideline 404

Remarks: Based on data from similar materials, Based on available data, the classification criteria are not met.

### Serious eye damage/eye irritation

#### Product:

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

#### Components:

##### **Ethanol:**

Species: Rabbit

Result: Causes serious eye irritation.

Method: Test(s) equivalent or similar to OECD Test Guideline 405

Remarks: Based on data from similar materials

### Respiratory or skin sensitisation

#### Product:

Remarks: Not a sensitiser.

Based on available data, the classification criteria are not met.

#### Components:

##### **Ethanol:**

Species: Mouse

Method: Test(s) equivalent or similar to OECD Test Guideline 406

Remarks: Based on data from similar materials Based on available data, the classification criteria are not met.

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

### Germ cell mutagenicity

#### Product:

: Remarks: Contains Benzene, CAS # 71-43-2., May cause heritable genetic damage

Remarks: Mutagenicity studies on gasoline and gasoline blending streams have shown predominantly negative results.

#### Components:

##### **Ethanol:**

: Test species: Mouse  
Method: OECD Test Guideline 471  
Remarks: Based on data from similar materials, Based on available data, the classification criteria are not met.

Germ cell mutagenicity- Assessment : This product does not meet the criteria for classification in categories 1A/1B.

### Carcinogenicity

#### Product:

Remarks: Contains Benzene, CAS # 71-43-2., Known human carcinogen.

Remarks: Contains Benzene, CAS # 71-43-2., May cause leukaemia (AML - acute myelogenous leukaemia), May cause MDS (Myelodysplastic Syndrome).

Remarks: Inhalation exposure to mice causes liver tumours, which are not considered relevant to humans.

Remarks: An epidemiology study of more than 18,000 petroleum marketing and distribution workers found no significantly increased risk of death from leukemia, multiple myeloma, or kidney cancer associated with gasoline exposure.

#### Components:

##### **Ethanol:**

Species: Rat, (male and female)

Application Route: Oral

Method: Test(s) equivalent or similar to OECD Test Guideline 453

Remarks: Based on available data, the classification criteria are not met.

Carcinogenicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

### IARC

Group 1: Carcinogenic to humans

Benzene

71-43-2

Group 2B: Possibly carcinogenic to humans

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

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	Cumene	98-82-8
	Naphthalene	91-20-3
	Ethylbenzene	100-41-4
<b>OSHA</b>	OSHA specifically regulated carcinogen	
	Benzene	71-43-2
<b>NTP</b>	Known to be human carcinogen	
	Benzene	71-43-2
	Reasonably anticipated to be a human carcinogen	
	Cumene	98-82-8
	Naphthalene	91-20-3

### Reproductive toxicity

#### Product:

:

Remarks: Contains Toluene, CAS # 108-88-3., Causes foetotoxicity at doses which are maternally toxic.

Remarks: Contains n-Hexane, CAS # 110-54-3., May impair fertility at doses which produce other toxic effects.

Remarks: Contains Toluene, CAS # 108-88-3., Many case studies involving abuse during pregnancy indicate that toluene can cause birth defects, growth retardation and learning difficulties.

Remarks: Ethanol, a component of this material, may cause birth defects and/or miscarriages following high oral doses.

#### Components:

##### **Ethanol:**

:

Species: Mouse  
Sex: male and female  
Application Route: Oral

Method: Equivalent or similar to OECD Test Guideline 416  
Remarks: Based on available data, the classification criteria are not met.

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

Effects on foetal development : Species: Rat, female  
Application Route: Inhalation  
Method: Test(s) equivalent or similar to OECD Test Guideline 414  
Remarks: Based on available data, the classification criteria are not met., Causes foetotoxicity in animals at doses which are maternally toxic., Ethanol, a component of this material, may cause birth defects and/or miscarriages.

Reproductive toxicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

### STOT - single exposure

#### Product:

Remarks: High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness.

#### Components:

##### **Ethanol:**

Remarks: Based on available data, the classification criteria are not met.

### STOT - repeated exposure

#### Product:

Remarks: Kidney: caused kidney effects in male rats which are not considered relevant to humans

#### Components:

##### **Ethanol:**

Remarks: Based on available data, the classification criteria are not met.

### Repeated dose toxicity

#### Components:

##### **Ethanol:**

Species: Rat, male and female

Method: OECD Test Guideline 408

Remarks: No significant adverse effects were reported

### Aspiration toxicity

#### Product:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

### Further information

#### Product:

Remarks: Exposure to very high concentrations of similar materials has been associated with

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version 4.0      Revision Date: 04/23/2021      SDS Number: 800001031763      Print Date: 04/23/2021  
Date of last issue: 06/13/2018

irregular heart rhythms and cardiac arrest.

Remarks: Contains Toluene, CAS # 108-88-3., Prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss., Abuse of vapours has been associated with organ damage and death.

Remarks: Contains Benzene, CAS # 71-43-2., May cause MDS (Myelodysplastic Syndrome).

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

### SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment : Fuels are typically made from blending several refinery streams. Ecotoxicological studies have been carried out on a variety of hydrocarbon blends and streams but not those containing additives.  
Information given is based on a knowledge of the components and the ecotoxicology of similar products.  
Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

#### Ecotoxicity

##### Product:

Toxicity to fish (Acute toxicity) : Remarks: LL/EL/IL50 > 1 <= 10 mg/l  
Toxic

Toxicity to daphnia and other aquatic invertebrates (Acute toxicity) : Remarks: LL/EL/IL50 > 1 <= 10 mg/l  
Toxic

Toxicity to algae (Acute toxicity) : Remarks: LL/EL/IL50 > 1 <= 10 mg/l  
Toxic

Toxicity to fish (Chronic toxicity) : Remarks: NOEC/NOEL > 1.0 - <= 10 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: NOEC/NOEL > 1.0 - <= 10 mg/l

Toxicity to microorganisms (Acute toxicity) : Remarks: LL/EL/IL50 >10 <= 100 mg/l  
Harmful

##### Components:

##### **Ethanol:**

Toxicity to fish (Acute toxicity) : LC50 (Pimephales promelas (fathead minnow)): 14,200 mg/l  
Exposure time: 96 h

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version 4.0      Revision Date: 04/23/2021      SDS Number: 800001031763      Print Date: 04/23/2021  
Date of last issue: 06/13/2018

Method: Test(s) equivalent or similar to OECD Guideline 203  
Remarks: Based on available data, the classification criteria are not met.

Toxicity to daphnia and other aquatic invertebrates (Acute toxicity) : LC50 (Ceriodaphnia dubia (water flea)): 5,012 mg/l  
Exposure time: 48 h  
Method: Test(s) equivalent or similar to OECD Guideline 202  
Remarks: Based on available data, the classification criteria are not met.

Toxicity to algae (Acute toxicity) : EC50 (Chlorella vulgaris (Fresh water algae)): 675 mg/l  
Exposure time: 72 h  
Method: Test(s) equivalent or similar to OECD Test Guideline 201  
Remarks: Based on available data, the classification criteria are not met.

Toxicity to fish (Chronic toxicity) : NOEC: 245 mg/l  
Exposure time: 30 d  
Method: Based on quantitative structure-activity relationship (QSAR) modelling  
Remarks: NOEC/NOEL > 100 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (Water flea)): 2 mg/l  
Exposure time: 10 d  
Method: Test(s) equivalent or similar to OECD Guideline 211  
Remarks: NOEC/NOEL > 1.0 - <=10 mg/l (based on test data)

Toxicity to microorganisms (Acute toxicity) : Toxic threshold (Pseudomonas putida): 6,500 mg/l  
Exposure time: 16 h

### Persistence and degradability

#### Product:

Biodegradability : Remarks: Readily biodegradable.  
The volatile constituents will oxidize rapidly by photochemical reactions in air.

#### Components:

##### **Ethanol:**

Biodegradability : Biodegradation: 84 %  
Exposure time: 20 d  
Method: Test(s) equivalent or similar to OECD Guideline 301 B  
Remarks: Readily biodegradable.  
Oxidises rapidly by photo-chemical reactions in air.

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: Contains constituents with the potential to bioaccumulate.

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

Remarks: Log Pow = 2 - 7

### Components:

#### **Ethanol:**

Bioaccumulation : Remarks: Does not bioaccumulate significantly.

Partition coefficient: n-octanol/water : log Pow: < 1

#### **Mobility in soil**

#### Product:

Mobility : Remarks: Evaporates within a day from water or soil surfaces. Large volumes may penetrate soil and could contaminate groundwater. Contains volatile components. Floats on water.

### Components:

#### **Ethanol:**

Mobility : Remarks: Dissolves in water. If product enters soil, it will be highly mobile and may contaminate groundwater.

#### **Other adverse effects**

#### Product:

Additional ecological information : Films formed on water may affect oxygen transfer and damage organisms.

### Components:

#### **Ethanol:**

Results of PBT and vPvB assessment : The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

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## SECTION 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Waste from residues : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand. Do not dispose into the environment, in drains or in water courses  
Do not dispose of tank water bottoms by allowing them to drain into the ground.  
This will result in soil and groundwater contamination.  
MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Contaminated packaging : Drain container thoroughly.  
After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard.  
Do not puncture, cut, or weld uncleaned drums.  
Send to drum recoverer or metal reclaimer.  
Do not pollute the soil, water or environment with the waste container.

### SECTION 14. TRANSPORT INFORMATION

#### National Regulations

##### US Department of Transportation Classification (49 CFR Parts 171-180)

UN/ID/NA number : UN 1203  
Proper shipping name : GASOLINE  
Class : 3  
Packing group : II  
Labels : 3  
ERG Code : 128  
Marine pollutant : no  
Remarks : Oil: This product is an oil under 49CFR (DOT) Part 130. If shipped by rail or highway in a tank with a capacity of 3500 gallons or more, it is subject to these requirements. Mixtures or solutions containing 10% or more of this product may also be subject to this rule.

#### International Regulations

##### IATA-DGR

UN/ID No. : UN 1203  
Proper shipping name : GASOLINE  
Class : 3  
Packing group : II  
Labels : 3

##### IMDG-Code

UN number : UN 1203  
Proper shipping name : GASOLINE  
Class : 3  
Packing group : II  
Labels : 3



# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version 4.0      Revision Date: 04/23/2021      SDS Number: 800001031763      Print Date: 04/23/2021  
Date of last issue: 06/13/2018

Marine pollutant : yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

### Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
<b>Benzene</b>	<b>71-43-2</b>	<b>10</b>	<b>250</b>
<b>Toluene</b>	<b>108-88-3</b>	<b>100</b>	<b>100 (F005)</b>
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>100</b>	<b>100 (F003)</b>
<b>Xylene</b>	<b>1330-20-7</b>	<b>100</b>	<b>100 (F003)</b>
<b>Benzene</b>	<b>71-43-2</b>	<b>10</b>	<b>10 (D018)</b>

\*: The components with RQs are given for information., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Skin corrosion or irritation  
Aspiration hazard  
Reproductive toxicity  
Germ cell mutagenicity  
Carcinogenicity  
Specific target organ toxicity (single or repeated exposure)

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Toluene	108-88-3	>= 20 - < 30 %
Xylene	1330-20-7	>= 20 - < 30 %
Benzene	71-43-2	>= 1 - < 5 %
n-Hexane	110-54-3	>= 1 - < 5 %

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
4.0

Revision Date:  
04/23/2021

SDS Number:  
800001031763

Print Date: 04/23/2021  
Date of last issue: 06/13/2018

---

Ethylbenzene	100-41-4	>= 1 - < 5 %
Naphthalene	91-20-3	>= 0.1 - < 1 %

### Clean Water Act

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Naphthalene	91-20-3	0.99 %
Cyclohexane	110-82-7	0.99 %
Ethylbenzene	100-41-4	2.99 %
Benzene	71-43-2	4 %
Xylene	1330-20-7	24.99 %
Toluene	108-88-3	24.99 %

### US State Regulations

#### Pennsylvania Right To Know

gasoline	Not Assigned
Toluene	108-88-3
Xylene	1330-20-7
Ethanol	64-17-5
Trimethylbenzene (all isomers)	25551-13-7
Benzene	71-43-2
n-Hexane	110-54-3
Ethylbenzene	100-41-4
Cyclohexane	110-82-7
Naphthalene	91-20-3
Cumene	98-82-8

#### California Prop. 65

WARNING: This product can expose you to chemicals including Ethanol, Benzene, Ethylbenzene, Naphthalene, Cumene, which is/are known to the State of California to cause cancer, and Toluene, Ethanol, Benzene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### California List of Hazardous Substances

Toluene	108-88-3
Xylene	1330-20-7
Ethanol	64-17-5
Trimethylbenzene (all isomers)	25551-13-7
Benzene	71-43-2
n-Hexane	110-54-3
Ethylbenzene	100-41-4

#### California Regulated Carcinogens

Benzene	71-43-2
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#### Other regulations:

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version 4.0      Revision Date: 04/23/2021      SDS Number: 800001031763      Print Date: 04/23/2021  
Date of last issue: 06/13/2018

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### SECTION 16. OTHER INFORMATION

#### Further information

NFPA Rating (Health, Fire, Reactivity)      1, 3, 0

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
OSHA CARC : OSHA Specifically Regulated Chemicals/Carcinogens  
OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000  
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
OSHA Z-2 : USA. Occupational Exposure Limits (OSHA) - Table Z-2  
ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
OSHA CARC / PEL : Permissible exposure limit (PEL)  
OSHA CARC / STEL : Excursion limit  
OSHA P0 / TWA : 8-hour time weighted average  
OSHA P0 / STEL : Short-term exposure limit  
OSHA Z-1 / TWA : 8-hour time weighted average  
OSHA Z-2 / TWA : 8-hour time weighted average  
OSHA Z-2 / CEIL : Acceptable ceiling concentration  
OSHA Z-2 / Peak : Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift  
Abbreviations and Acronyms : The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.

ACGIH = American Conference of Governmental Industrial Hygienists  
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road  
AICS = Australian Inventory of Chemical Substances  
ASTM = American Society for Testing and Materials  
BEL = Biological exposure limits  
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes  
CAS = Chemical Abstracts Service  
CEFIC = European Chemical Industry Council  
CLP = Classification Packaging and Labelling  
COC = Cleveland Open-Cup  
DIN = Deutsches Institut für Normung  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
DSL = Canada Domestic Substance List  
EC = European Commission  
EC50 = Effective Concentration fifty  
ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals  
ECHA = European Chemicals Agency

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SH VPOWER 93 NVOC RFG ETOH 3.5-4.0

Version  
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Revision Date:  
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EINECS = The European Inventory of Existing Commercial Chemical Substances  
EL50 = Effective Loading fifty  
ENCS = Japanese Existing and New Chemical Substances Inventory  
EWC = European Waste Code  
GHS = Globally Harmonised System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IC50 = Inhibitory Concentration fifty  
IL50 = Inhibitory Level fifty  
IMDG = International Maritime Dangerous Goods  
INV = Chinese Chemicals Inventory  
IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables  
KECI = Korea Existing Chemicals Inventory  
LC50 = Lethal Concentration fifty  
LD50 = Lethal Dose fifty per cent.  
LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading  
LL50 = Lethal Loading fifty  
MARPOL = International Convention for the Prevention of Pollution From Ships  
NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level  
OE\_HP V = Occupational Exposure - High Production Volume  
PBT = Persistent, Bioaccumulative and Toxic  
PICCS = Philippine Inventory of Chemicals and Chemical Substances  
PNEC = Predicted No Effect Concentration  
REACH = Registration Evaluation And Authorisation Of Chemicals  
RID = Regulations Relating to International Carriage of Dangerous Goods by Rail  
SKIN\_DES = Skin Designation  
STEL = Short term exposure limit  
TRA = Targeted Risk Assessment  
TSCA = US Toxic Substances Control Act  
TWA = Time-Weighted Average  
vPvB = very Persistent and very Bioaccumulative

This product is intended for use in closed systems only.

There has been a significant change in the required exposure controls/personal protection requirements in section 8.

Revision Date : 04/23/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

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Version	Revision Date:	SDS Number:	Print Date: 04/23/2021
4.0	04/23/2021	800001031763	Date of last issue: 06/13/2018

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material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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