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SAFETY DATA SHEET (SDS): GASOLINE NORMAL-80; GASOLINE PREMIUM-95; GASOLINE REGULAR-92

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1 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

Identification on the label/Trade name(s): GASOLINE NORMAL-80; GASOLINE PREMIUM-95; GASOLINE REGULAR-92

Name of Substance:	CAS No.:	EC No.:	Index No.:
Gasoline	Gasoline 86290-81-5		649-378-00-4

REACH registration No.: 01-2119471335-39-0084

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

1.2.1 Identified uses:

-Manufacture of substances, -Distribution of substance,

-Use of substance as intermediate, -Formulation and repackaging of substances & mixtures

1.2.2 Uses advised against: Uses other than those given above, are not recommended.

1.3 Manufacturer

"Orsknefteorgsintez", OJSC. Goncharova str., 1a, Orsk city, Orenburg region, 462407, Russian Federation

1.4 Details of the supplier of the safety data sheet:

Only Representative: **SpetsInterProject Oy** E-mail: hs@reach-registrator.net

1.5 Emergency telephone Number:

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance

2.1.1 Classification:

EU CLP 1272/2008: This classification relates to low boiling point naphtha, (flashpoint < 23°C initial boiling point \leq 35°C, benzene \geq 0.1%, n-hexane \geq 3%, OR toluene \geq 3%, OR toluene \geq 3% and n-hexane \geq 3%)

<u>Classification:</u> Flam. Liq. 1; H224; Skin Irrit. 2; H315; Asp. Tox. 1; H304; Repr. 2; H361; Muta. 1B; H340; Carc. 1B; H350; STOT SE 3; H336; Aquatic Chronic 2; H411

For full text of H- phrases: see section 2.2.

67/548/EEC(DSD): This classification relates low boiling point naphtha, (flashpoint < 0°C initial boiling point ≤ 35°C, benzene ≥ 0.1%, toluene ≥ 5%)

<u>Classification:</u> F+; R12; Xn; R65; R67; Xi; R38; Carc. Cat. 2; R45; Muta. Cat. 2; R46; Repr. Cat. 3; R63; N; R51/53

Indication of danger: F+ - extremely flammable

r+ - extremely manimable

N - dangerous for the environment

Xi - irritant

Xn - harmful

R-phrases:

R12 - extremely flammable

R38 - irritating to skin

R45 - may cause cancer

R46 - may cause heritable genetic damage

R51/53 - toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R63 - possible risk of harm to the unborn child

R65 - harmful: may cause lung damage if swallowed

R67 - vapours may cause drowsiness and dizziness

S-phrases:

S2 - keep out of the reach of children

S23 - do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer)

S24 - avoid contact with skin

S29 - do not empty into drains

S36/37 - wear suitable protective clothing and gloves

S43 - in case of fire, use: Foam (Specifically trained personnel only), Water fog (Specifically trained personnel only), Dry chemical powder, Carbon dioxide, Other inert gases (subject to regulations), Sand or earth. Do not use direct water jets on the burning product; they could cause splattering and spread the fire. Simultaneous use of foam and water on the same

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surface is to be avoided as water destroys the foam.

S45 - in case of accident or if you feel unwell, seek medical advice immediately (show the lable where possible)

S51 - use only in well-ventilated areas

S53 - avoid exposure - obtain special instructions before use

S61 - avoid release to the environment. Refer to special instructions/safety data sheets

S62 - if swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

2.1.2 The most important adverse effects

Physical/chemical Extremely flammable. During use, may form explosive or flammable mixture of vapours and air.

hazards:

For health hazards: May cause lung damage if swallowed. Vapours may cause drowsiness or dizziness. Causes skin

irritation. Vapour is irritating to skin, eyes and respiratory tract. Liquid product splashes irritate eyes and skin. Gasoline may contain up to 1 % vol. of benzene which is classified as carcinogen of 2nd category, therefore long-term exposure may cause cancer, anemia, leukemia and other diseases. May cause genetic defects. Suspected of damaging fertility or the unborn child.

DO NOT INGEST. IF SWALLOWED THEN SEEK IMMEDIATE MEDICAL ASSISTANCE.

For environmental

Toxic to aquatic life with long lasting effects.

hazards: 2.2 Label elements:

Hazard Pictograms:



Signal Word(S): Danger

Hazard Statements: H224: Extremely flammable liquid and vapour

H304-May be fatal if swallowed and enters airways

H315-Causes skin irritation

H336-May cause drowsiness or dizziness

H340-May cause genetic defects

H350-May cause cancer

H361-Suspected of damaging fertility or the unborn child

H411-Toxic to aquatic life with long lasting effects

Precautionary Statements: P201-Obtain special instructions before use

P210-Keep away from heat/sparks/open flames/...hot surfaces....no

smoking.

P280-Wear protective gloves/protective clothing/eye protection/face

protection.

P301 + P310-IF SWALLOWED: Immediately call a poison centre or

doctor/physician

P403 + P233-Store in a well-ventilated place. Keep container tightly

closed.

P501-Dispose of contents/container to....

2.3 Other hazards: The substance does not fulfill the PBT / vPvB criteria.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Description: A complex combination of hydrocarbons consisting primarily of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons having carbon numbers predominantly greater than C3 and boiling in the range of 30°C to 260°C (86°F to 500°F).

The substance is UCVB substance. The purity is 100%

Ingredient(s)/Constituent(s):

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Name of Constituent:	CAS No.:	EC No.:	Index No.:	Composition, % (w/w):
Benzene	71-43-2	200-753-7	601-020-00-8	3.32
Toluene	108-88-3	203-625-9	601-021-00-3	13.89
Aromatics	-	-	-	57
Saturated hydrocarbons	-	-	-	42.5
Unknown Constituents	-	-	1	0.5

4 FIRST AID MEASURES

4.1 Description of first aid measures:

4.1.1 In case of inhalation:

Symptoms: inhalation of vapours may cause headache, nausea, vomiting and an altered state of consciousness. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If the casualty is unconscious and:

- * Not breathing ensure that there is no obstruction to breathing and give artificial respiration by trained personnel. If necessary, give external cardiac massage and obtain medical assistance.
- * Breathing place in the recovery position and keep the head below the level of the torso. Administer oxygen if ecessary; Obtain medical attention if casualty has an altered state of consciousness or if symptoms do not resolve. (Subject to applicability) If there is any suspicion of inhalation of H2S:
- * Rescuers must wear breathing apparatus, belt and safety rope, and follow rescue procedures.
- * Remove casualty to fresh air as quickly as possible.
- * Immediately begin artificial respiration if breathing has ceased.
- * Provision of oxygen may help.

4.1.2 In case of skin contact:

Symptoms: reddening, irritation.

Remove contaminated clothing and footwear, and dispose of safely. Wash affected area with soap and water. Seek medical attention if skin irritation, swelling or redness develops and persists. When using high-pressure equipment, injection of product can occur. If high-pressure injuries occur, immediately seek professional medical attention. Do not wait for symptoms to develop. For minor thermal burns: Cool the burn. Hold the burned area under cold running water for at least five minutes, or until the pain subsides. However, body hypothermia must be avoided.

4.1.3 In case of eyes contact:

Symptoms: slight irritation (unspecific).

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist.

4.1.4 In case of ingestion/aspiration:

Symptoms: few or no symptoms expected. If any, nausea and diarrhoea might occur.

Ingestion (swallowing) of this material may result in an altered state of consciousness and loss of coordination. In case of ingestion, always assume that aspiration has occurred .The casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Do not induce vomiting as there is high risk of aspiration. Do not give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Inhalation of vapours may cause headache, nausea, vomiting and an altered state of

consciousness.

Skin contact: reddening, irritation

Eyes contact: slight irritation (unspecific)

Ingestion/aspiration: In case of ingestion/aspiration nausea and diarrhoea might occur. Ingestion (swallowing) of this

material may result in an altered state of consciousness and loss of coordination. May be fatal if

swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatment needed

Immediately call a POISON CENTER or doctor/physician.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

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Suitable extinguishing media: Foam (Specifically trained personnel only), water fog (Specifically trained personnel only), dry chemical powder, carbon dioxide, other inert gases (subject to regulations), sand or earth.

Unsuitable extinguishing media: Do not use direct water jets on the burning product; they could cause splattering and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

5.2 Special hazards arising from the substance or mixture

Combustion Products: Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and Gases, including carbon monoxide and unidentified organic and inorganic compounds. If sulphur compounds are present in appreciable amounts, combustion products may include also H2S and SOx (sulfur oxides) or sulfuric acid.

This substance will float and can be reignited on surface water.

5.3 Advice for fire-fighters:

Firefighters must wear fire resistant protective equipment. Wear self contained breathing apparatus and protective gloves. Use of water mist and water spray for cooling the surfaces exposed to heat and for protection of persons. Only persons trained in fire-fighting should use water spray.

In case of a large fire or in confined or poorly ventilated spaces wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Stop or contain leak at the source if safe to do so. Avoid direct contact with released material. Stay upwind. In case of large spillages, alert occupants in downwind areas. Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares). (Subject to applicability): In those cases when the presence of dangerous amounts of H2S around the spilled product is suspected or proved, additional or special actions may be warranted, including access restrictions, use of special protection equipment, procedures and personnel training. If required, notify relevant authorities according to all applicable regulations.

6.1.2 For emergency responders:

Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material.

Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: gloves made of PVA are not water-resistant, and are not suitable for emergency use.

Work helmet. Antistatic non-skid safety shoes or boots

Goggles or face shield, if splashes or contact with eyes is possible or anticipated.

Respiratory protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H2S) or a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

6.2 Environmental precautions:

Prevent product from entering sewers, rivers, waterways or other bodies of water

6.3 Methods for containment and cleaning up:

Spillages onto land

Prevent product from entering sewers, rivers, waterways or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use direct jets. When inside buildings or confined spaces, ensure adequate ventilation. Absorb spilled product with suitable non-combustible materials. Collect free product with suitable means. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations.

Spillages on water or at sea

In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. Large spillages in open waters should be contained with floating barriers or other mechanical means and recovered, only if this is strictly necessary and if fire/explosion risks can be adequately prevented. Otherwise control the spreading of the spillage, and let the substance evaporate naturally.

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The use of dispersants should be advised by an expert, and, if required, approved by local authorities. Collect all waste materials in suitable tanks or containers for recovery or safe disposal.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.5 Additional information:

Note: recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken.

(Subject to applicability): Concentration of H2S in tank headspaces may reach hazardous values, especially in case of prolonged storage. This situation is especially relevant for those operations which involve direct exposure to the vapours in the tank.

(Subject to applicability): Spillages of limited amounts of products, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which are unlikely to entail exposure to dangerous concentrations. As H2S has a density greater than ambient air, a possible exception may regard the build-up of dangerous concentrations in specific spots, like trenches, depressions or confined spaces. In all these circumstances, however, the correct actions should be assessed on a case-by-case basis.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Take precautionary measures against static electricity. Ground/bond containers, tanks and transfer/receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment Use only non-sparking tools. The vapour is heavier than air. Beware of accumulation in pits and confined spaces. Use only bottom loading of tankers, in compliance with European legislation. Do not use compressed air for filling, discharging, or handling operations.

7.1.2 Advice on general occupational hygiene:

Avoid contact with skin and eyes. Do not ingest. Do not breathe vapours. Use personal protective equipment as required. For more information regarding protective equipment and operational conditions see Exposure scenarios.

7.2 Conditions for safe storage, including any incompatibilities

Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Cleaning, inspection and maintenance of the internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Before entering storage tanks and commencing any operation in a confined area check the atmosphere for oxygen content and flammability. (Subject to applicability) If sulphur compounds are suspected to be present in the product, check the atmosphere for H2S content. Store separately from oxidising agents.

Recommended and Unsuitable Materials for Storage

Recommended materials: For containers, or container linings use mild steel, stainless steel.

Unsuitable materials: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer.

Container Advice

If the product is supplied in containers:

- Keep only in the original container, or in an approved container for this kind of product. Keep containers tightly closed and properly labelled. Protect from the sunlight
- Light hydrocarbon vapours can build up in the headspace of containers. These can cause flammability / explosion hazards. Open slowly in order to control possible pressure release.
- Empty containers may contain flammable product residues. Do not weld, solder, drill, cut or incinerate empty containers, unless they have been properly cleaned.

7.3 Specific end use(s): Not applicable

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8.1 Control parameters:

- 8.1.1 Occupational exposure limits: Consult local authorities for acceptable exposure limits
- 8.1.2 Additional exposure limits under the conditions of use: Not available.
- 8.1.3 DNEL/DMEL values (see tables below) and PNEC-Values (none)

DN(M)ELs for workers (Low boiling point naphthas (gasolines) (R45/46; R62/63)

	Effect	Route	DNEL	Dose Descriptor	Modified Dose Descriptor and
					Assessment Factors
		Dermal	(c) (a)		
Acute	Systemic	Inhalation	1300 mg/m ³ /15 min (a)	4320 mg/m ³ /h (LOAEC based on for neuromuscular symptoms in human volunteers)	Dose descriptor was modified to correct starting point of 3859 mg/m³/15 min by adjustment for duration of exposure, LOAEC to NOAEC, and ventilation rate of workers. Then AF of 3 was applied for intraspecies differences.
Exposure		Dermal	(d)		
	Local	Inhalation	1100 mg/m ³ /15 min	2400 mg/m ³ /h (LOAEC based on irritation of nose and throat in human volunteers)	Dose descriptor was modified to correct starting point of 3200 mg/m³/15 min by adjustment for duration of exposure and LOAEC to NOAEC. Then AF of 3 was applied for intraspecies differences.
	Systemic	Dermal	(c) (a)		
	(b)	Inhalation	(c) (a)		
		Dermal	(d)		
Long- Term Exposure	Local	Inhalation	840 mg/m ³ /8h	10,000 mg/m ³ /6 h (NOAEC based on red nasal discharge in rats exposed by inhalation for 6 h/day, 5 days/wk for 13 wk)	Dose descriptor was modified to correct starting point of 5025 mg/m³/8-h day by adjustment for duration of daily exposures and ventilation rate of workers. Then AF of 6 was applied for inter- and intraspecies differences and for overall duration of exposure.

- a) Additional consideration should be given to an inhalation DMEL-worker for benzene of 1 ppm if benzene air concentrations are sufficiently high. A dermal reference value for workers of 23.4 mg of benzene/kg/day [1% absorption of benzene from benzene-containing petroleum naphtha streams via the skin] should be considered if dermal exposure is expected.
- b) Long-term systemic effects include non-reproductive effects and developmental/reproductive effects. Lowest DNEL is shown.
- c) No hazard identified for this route (data available)
- d) The data do not allow setting a DNEL.

DN(M)ELs for the general population (Low boiling point naphthas (gasolines)) (R45/46; R62/63)

	Effect	Route	DNEL	Dose Descriptor	Modified Dose Descriptor and Assessment Factors
		Dermal	(a) (c)		
Acute	Systemic	Inhalation	1200 mg/m3/15 min (a)	4320 mg/m³/h (LOAEC based on for neuromuscular symptoms in human volunteers)	Dose descriptor was modified to correct starting point of 5760 mg/m3/15 min by adjustment for duration of exposure and LOAEC to NOAEC. Then AF of 5 was applied for intraspecies differences.
Exposure		Dermal	(e)		
	Local	Inhalation	640 mg/m3/15 min	2400 mg/m ³ /h (LOAEC based on irritation of nose and throat in human volunteers)	Dose descriptor was modified to correct starting point of 3200 mg/m3/15 min by adjustment for duration of exposure and LOAEC to NOAEC. Then AF of 5 was applied for intraspecies differences.
Long-	Systemic	Dermal	(a) (c)		

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Term	(b)	Inhalation	(a) (c)		
Exposure		Oral	(a) (d)		
		Dermal	(e)		
	Local	Inhalation	180 mg/m3/24h	10,000 mg/m ³ /6 h (NOAEC based on red nasal discharge in rats exposed by inhalation for 6 h/day, 5 days/wk for 13 wk)	Dose descriptor was modified to correct starting point of 1785 mg/m3/24-h day by adjustment for duration of daily exposures and number of exposures per week. Then AF of 10 was applied for inter- and intraspecies differences and for overall duration of exposure.

- a) Additional consideration should be given to an inhalation DMEL-general population for benzene of 1 ppb if benzene air concentrations are sufficiently high. Using this air concentration reference value for benzene in air of 1 ppb (3.5 microgram/m3) and assuming a default inhalation rate of 20 m3/day and a body weight of 70 kg yields a reference value for indirect exposure of 1.0 microgram benzene/kg/d. The ratio of benzene to total gasoline vapor utilized was 0.01. Thus, the resulting reference value utilized for indirect exposure of man via the environment is 100 micrograms total naphtha hydrocarbon containing benzene /kg/d. A dermal reference value for general population of 23.4 micrograms of benzene/kg/day [1% absorption of benzene from benzene-containing petroleum naphtha streams via the skin], should be considered if dermal exposure is expected. An oral reference value for general population, of 0.234 micrograms of benzene/kg/day, from benzene-containing petroleum naphtha streams in the environment should be considered if exposure via the oral route is expected (this is not expected).
- b) Long-term systemic effects include developmental/reproductive effects. Lowest DNEL is shown.
- c) No hazard identified for this route (data available)
- d) A DNEL for long-term oral exposures of the general population was not calculated for the reasons given below. The hazard from long-term oral exposures of the general population may be more dependent on the presence of benzene or toluene in gasoline; appropriate measures should be taken based on the levels of those substances.
 - c) Dermal or inhalation repeat-dose studies with gasoline or naphtha streams did not result in adverse systemic effects with doses at or above the limit dose.
 - d) Aside from potential neuromuscular effects from very high doses, acute exposures to gasoline and naphtha streams also have not resulted in significant adverse systemic effects.
 - d) Data on oral exposures were not available (possibly because it was not considered to be a relevant route).
 - e) The data do not allow setting a DNEL.

8.2 Exposure controls

Please refer to Annex of eSDS for controls of each exposure scenario.

Not available

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid Upper/lower explosive 1 - 6% (by volume)

concentration of vapors in

Relative Density (at 15°C):

air:

Colour: Colorless Vapour pressure: range of 4 to 240 kPa at

37.8°C

Odour: Characteristic of petrol Not applicable Vapour density: **Odour threshold:** 700 - 780 kg/m³

pH: Not available Water solubility: Insoluble

Freezing point (°C): n-Octanol/Water (log Po/w): Not applicable -60

Boiling point/range (°C): Approx. 29.5 - max. 215 Auto-ignition temperature 255 - 370

(°C):

Flash point (°C): -27 - -39**Decomposition temperature:** Not available

<1mm²/sec @ 37.8°C **Evaporation rate:** Not applicable Viscosity:

Flammability: Extremely flammable **Explosive properties:** Non explosive Upper/lower flammability -27/-39 - -8/-27 No oxidising Oxidising properties:

limits (°C):

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9.2 Other information:

Fat solubility(solvent – oil to be specified) etc.: Dissoluble in organic solvents, oils.

Bulk Density:

Dissociation constant in water(pKa):

Oxidation-reduction Potential:

Not available

Not available

10 STABILITY AND REACTIVITY

10.1 Reactivity: Stable at prescribed storage and use conditions.

10.2 Chemical stability: Under normal conditions, the product is stable. No hazardous reaction when handled and stored according to provisions.

10.3 Possibility of hazardous reactions: Under normal conditions, not hazardous reactions will occur.

10.4 Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Avoid exposure - obtain special instructions before use. Avoid release to the environment. Refer to special instructions/safety data sheet.

10.5 Incompatible materials: Highly reactive or incompatible with the following materials: oxidizing materials. **10.6 Hazardous decomposition products:** Thermal decomposition products vary depending on conditions. Partial decomposition produces fume, carbon dioxide, carbon monoxide and other harmful gases. Toxic gas concentration in a confined space or premises may reach a hazardous limit.

11 TOXICOLOGICAL INFORMATION

11.1 Toxicokinetics, metabolism and distribution

There are no experimental studies of the toxicokinetics of gasoline per se, but there have been numerous toxicokinetic studies of the major gasoline constituents. The principal route of exposure for most individuals is inhalation. It has been shown that absorption of inhaled constituents increases with increasing molecular weight, with n-paraffins being more highly absorbed than iso-paraffins and aromatics being more highly absorbed than the corresponding paraffins. The low molecular weight constituents (butanes and pentanes) are poorly absorbed and predominantly exhaled unchanged. The higher molecular weight constituents are more efficiently absorbed, with metabolism, normally to the corresponding alcohols, and excretion in the urine becoming increasingly important. About 15% of the butanes and pentanes are absorbed with biological half-times measured in minutes. About 25% of the hexanes and 50% of the higher molecular weight constituents are absorbed with biological halftimes ranging from approximately 3-12 hours depending on whether the assessment is based on blood or urinary levels.

Dermal contact normally contributes little to overall dose as gasoline constituents in the vapor phase are poorly absorbed percutaneously. Studies with toluene indicate that dermal absorption from vapor is approximately 1% of the amount absorbed by inhalation. When contacted as liquid, gasoline constituents are also poorly absorbed if allowed to evaporate. However, if evaporation is impeded then the fraction absorbed can be substantial. Other toxicokinetic properties of percutaneously absorbed gasoline constituents are similar to material absorbed by inhalation.

Oral ingestion also normally contributes little to overall dose as gasoline is not intended for consumption. However, most of the constituents are well absorbed from the gastrointestinal tract. An assumption of 100% bioavailability of ingested material is reasonable.

11.2 Information on toxicological effects

Acute toxicity: Acute oral LD50 > 5000 mg/kg

Acute Inhalation LC50 > 5610 mg/m3 Acute dermal LD50 > 2000 mg/kg

Skin corrosion/Irritation: In vivo skin irritation - Irritant.

Serious eye damage/irritation: In vivo eye irritation - Not irritant

Skin sensitization: No evidence of sensitisation

Germ cell mutagenicity: Mutagenic

In vitro cytogenicity study in mammalian cells- Negative.

In vitro gene mutation study in mammalian cells - Mostly negative but isolated positive

or equivocal mouse lymphoma studies.

In vivo cytogenicity – Negative. In vivo gene mutation – Negative.

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Carcinogenicity: Carcinogenic (based on presence of more than 0.1% benzene).

Reproductive toxicity: Developmental toxicity inhalation NOAEL 20000 mg/m³

Reproductive toxicity inhalation NOAEL 20000 mg/m³

STOT- single exposure: Warnings for aspiration hazard and potential narcotic effects at high concentrations.

STOT-repeated exposure: By inhalation - the various reported changes included body weight effects, organ weight changes, variations in hematologic parameters, and red nasal discharge. Repeated

treatment at high levels can produce quite severe dermal effects at the application site.

Short-term repeat dose dermal NOAEL 3750 mg/kg Short-term repeat dose inhalation NOAEL 9840 mg/m³ Sub-chronic repeat dose inhalation NOAEL 20000 mg/m³

Aspiration hazard: Classified as aspiration hazard (Xn; R65 harmful, may cause lung

damage if swallowed, according to EU DSD 67/548/EEC).

12 ECOLOGICAL INFORMATION

12.1 Toxicity:

Toxic to aquatic life with long lasting effects Acute aquatic invertebrate EL50: 4.5mg/l Acute aquatic algae EL50: 3.1mg/l Acute aquatic fish LL50: 8.2mg/l Long-term Invertebrate NOEC: 2.6mg/l

12.2 Persistence and degradability:

As such, the substance has a very low potential to hydrolyze. Therefore, this degradative process will not contribute to its removal from the environment.

An evaluation of representative hydrocarbon structures indicate some structures meet the Persistent (P) or very Persistent (vP) criteria (see CONCAWE, 2010).

12.3 Bioaccumulative potential:

An evaluation of representative hydrocarbon structures indicate no structures meet the very Bioaccumulative (vB) criterion but some structures meet the Bioaccumulative (B) criterion (see CONCAWE, 2010).

12.4 Mobility in soil:

Not available.

12.5 Results of PBT&vPvB assessment:

Anthracene is not present in this substance at greater than 0.1% (CONCAWE, 2010). No other representative hydrocarbon structures were found to meet the PBT / vPvB criteria. The substance does not fulfill the PBT / vPvB criteria.

12.6 Other adverse effects:

This substance may contribute to ozone formation in the near surface atmosphere. However, the photochemical formation of ozone depends on a complex interaction of other atmospheric pollutant sources and environmental conditions. Therefore, the contribution of this substance to ozone formation is outside the scope of this substance assessment and is more appropriately addressed via EU air quality directives.

13 DISPOSAL CONSIDERATIONS

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: It is recommended to handle product remnants as hazardous waste.

14 TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number:	1203	1203	1203

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UN Proper shipping name:	GASOLINE	MOTOR SPIRIT	GASOLINE
Transport hazard Class:	3	3	3
Packaging group:	I	I	1
Environmental hazards:	3 Flammable liquids. Environmentally hazardous substance mark	3 Flammable liquids. Marine pollutant mark.	3 Flammable liquids. Environmentally hazardous substance mark
Special precautions for user:	See section 2.2	See section 2.2	See section 2.2

15 REGULATORY INFORMATION

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

Relevant information regarding authorization: Not applicable Relevant information regarding restriction: Not applicable

Other EU regulations: Regulation (EU) No 453/2010

Regulation (EC) No 1272/2008

Other National regulations: Not applicable.

The Chemical Safety Assessment has been performed for the substance.

16 OTHER INFORMATION

16.1 Indication of changes

Version 1.2 reflects a change of the Only Representative.

Version 1.1 amended by EU No 453/2010. The data was updated and is in consistency with the Chemical Safety Report provided by the Lead Registrant of the joint submission during REACH registration process. Section 3 was updated and is in consistency with the registration dossier on the substance provided by the manufacturer's Only Representative during REACH registration process.

16.2 Key sources for data

CONCAWE Chemical Safety Report prepared for Low Boiling Point Naphthas (Gasolines), 2010.

16.3 List of relevant R phrases, hazard statements, safety phrases and precautionary statements

Hazard Statements:

H224: Extremely flammable liquid and vapour

H304-May be fatal if swallowed and enters airways

H315-Causes skin irritation

H336-May cause drowsiness or dizziness

H340-May cause genetic defects

H350-May cause cancer

H361-Suspected of damaging fertility or the unborn child

H411-Toxic to aquatic life with long lasting effects

Precautionary Statements:

P201-Obtain special instructions before use

P210-Keep away from heat/sparks/open flames/...hot surfaces....no smoking.

P280-Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310-IF SWALLOWED: Immediately call a poison

centre or doctor/physician

P403 + P233-Store in a well-ventilated place. Keep container

tightly closed.

P501-Dispose of contents/container to....

R-phrases:

R12 - extremely flammable

R38 - irritating to skin

R45 - may cause cancer

R46 - may cause heritable genetic damage

R51/53 - toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment

R63 - possible risk of harm to the unborn child

R65 - harmful: may cause lung damage if swallowed

R67 - vapours may cause drowsiness and dizziness

S-phrases:

S2 - keep out of the reach of children

S23 - do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the

manufacturer)

S24 - avoid contact with skin

S29 - do not empty into drains

S36/37 - wear suitable protective clothing and gloves

S43 - in case of fire, use: Foam (Specifically trained personnel only), Water fog (Specifically trained personnel only), Dry chemical powder, Carbon dioxide, Other inert gases (subject to regulations), Sand or earth. Do not use direct water jets on the burning product; they could cause splattering and spread the fire. Simultaneous use of foam and water on the

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same surface is to be avoided as water destroys the foam.
S45 - in case of accident or if you feel unwell, seek medical
advice immediately (show the lable where possible)
S51 - use only in well-ventilated areas
S53 - avoid exposure - obtain special instructions before use
S61 - avoid release to the environment. Refer to special
instructions/safety data sheets
S62 - if swallowed, do not induce vomiting: seek medical
advice immediately and show this container or label

16.4 Acronyms, abbreviations

AC: Article category

ADR: European Agreement concerning international carriage of Dangerous goods by Road

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL: Derivative No effect Level DSD: Dangerous Substances Directive

EC: European Community EU: European Union

EU CLP 1272/2008: Regulation (EC) No 1272/2008

EUH: European Hazard Statement GHS: Global Harmonized System

IMDG: International Maritime Dangerous Goods IATA: International Air Transport Association LD50/LC50 - Lethal Dose/Concentration kill 50%

LC50: Median lethal dose

NOAEC/NOAEL: No Observable Adverse Effect Concentration / Level OECD: Organization for Economic Co-Operation and Development

OSHA - Occupational Safety & Health Administration

PBT: Persistent, bioaccumulative, Toxic

PC: Product Category

PEL: Permissible exposure limits

PNEC: Predicted No effect Concentration

Ppm: Part per million PROC: Process Category

eSDS: Extended Safety Data Sheet STEL: Short Term Exposure Limit

SU: Sector of Use

TWA: Time weighted average TVL: Threshold Limit Values

USEPA: United States Environmental Protection Agency

UCVB substances: Substances of Unknown or Variable Composition

vPvB: Very persistent and very bioaccumulative

WEL: Workplace Exposure Limit

WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period)

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period)

w/w: weight by weight

16.5 Notice to reader:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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Appendix 1 - Exposure Scenarios

1. Manufacture of Low Boiling Point Naphthas (Gasoline) - Industrial

	iling point naphthas (Gasoline) that is classified as naining equal to or greater than 1% to 5% benzene)	
Title	<u> </u>	
Manufacture of substances		
Use Descriptor		
Sector(s) of Use	3, 8, 9	
Process Categories	1, 2, 3, 8a, 8b, 15	
Environmental Release Categories	1, 4	
Specific Environmental Release Category ESVOC SpERC 1.1.v1		
Processes, tasks, activities covered		
	contained systems. Includes incidental exposures	

Manufacture of the substance within closed or contained systems. Includes incidental exposures during recycling / recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).

Assessment Method

See Section 3.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worke	er exposure
Product characteristics	
Physical form of product	Liquid, vapour pressure > 10 kPa at STP OC5
Concentration of substance in product	Covers percentage substance in the product up to 100 % (unless stated differently) G13
Amount used	Not applicable
Frequency and duration of use/exposure	Covers daily exposures up to 8 hours (unless stated differently) G2
Human factors not influenced by risk management	Not applicable
Other Operational Conditions affecting exposure	Operation is carried out at elevated temperature (> 20°C above ambient temperature). OC7. Assumes a good basic standard of occupational hygiene is implemented G1.
Contributing Scenarios	Specific Risk Management Measures and Operating Conditions
General Measures (skin irritants). G19.	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin effects that may develop. E3
General Measures (carcinogens). G18.	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 staff; provide specific activity training to operators to minimise exposures; wear suitable gloves (tested to EN374) and coveralls to prevent skin contamination; wear respiratory protection when its use is identified for certain contributing scenarios; clear up spills immediately and dispose of wastes safely.
	Regularly inspect, test and maintain all control measures. Consider the need for risk based health surveillance. G20.
CS15 General exposures	Handle substance within closed systems. E47.

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treatment (%)

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	T-			
(closed systems). + CS56	Sample via a closed loop or other system int	ended to avoid exposure. E8. Wear		
With sample collection.	suitable gloves tested to EN374. PPE15.			
CS15 General exposures	Provide extract ventilation to points where en	missions occur. E54. Handle		
(closed systems).	substance within closed systems. E47.			
CS36 Laboratory activities	Handle within a fume cupboard or implemen	t suitable equivalent methods		
	to minimise exposure. E12.			
CS14 Bulk transfers	Ensure material transfers are under containment or extract ventilation. E66.			
CS39 Equipment cleaning and	Drain down and flush system prior to equipment break-in or maintenance. E55.			
maintenance	Retain drain downs in sealed storage pending disposal or for subsequent recycle. ENVT4.			
	Clear spills immediately. C&H13. Wear chemically resistant gloves (tested to be a constant of the constant of	EN374) in combination with intensive		
	management supervision controls. PPE18.			
CS67 Storage.	Store substance within a closed system. E84 EN374. PPE15.	4. Wear suitable gloves tested to		
Section 2.2 Control of environment	onmental exposure			
Product characteristics				
Substance is complex UVCB [F	PrC3]. Predominantly hydrophobic [PrC4a].			
Amounts used				
Fraction of EU tonnage used in	region	0.1		
Regional use tonnage (tonnes/		1.87E7		
Fraction of Regional tonnage u		0.03		
Annual site tonnage (tonnes/ye		6.0e5		
Maximum daily site tonnage (kg		2.0e6		
Frequency and duration of us		2.000		
Continuous release [FD2].	30			
Emission days (days/year)		300		
	fluored by rick management	300		
	fluenced by risk management	140		
Local freshwater dilution factor	1	10		
Local marine water dilution fact		100		
Other given operational cond	litions affecting environmental exposure			
Release fraction to air from pro	cess (initial release prior to RMM)	0.05		
	from process (initial release prior to	0.003		
RMM)				
	ocess (initial release prior to RMM)	0.0001		
	asures at process level (source) to prever			
	sites thus conservative process release esting			
Technical onsite conditions a to soil	and measures to reduce or limit discharge	es, air emissions and releases		
	ed substance to or recover from wastewater	TCR141 Risk from		
	en by humans via indirect exposure (primarily			
wastewater treatment required		initialation) [TORTK] Onsite		
	typical removal efficiency of (%)	99.0		
	95.2			
**	to receiving water discharge) to provide	30.2		
the required removal efficiency ≥ (%)				
If discharging to domestic sewage treatment plant, provide the required 80.4 onsite wastewater removal efficiency of ≥ (%)				
Organisation measures to pr		de anatado a antada a 1 co		
Do not apply industrial sludge t reclaimed [OMS3].	o natural soils [OMS2]. Sludge should be inc	cinerated, contained or		
	ated to municipal sewage treatment plant			
Estimated substance removal f	rom wastewater via domestic sewage	95.5		
treatment (%)	•			

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Total efficiency of removal from wastewater after onsite and offsite	99.1		
(domestic treatment plant) RMMs (%)			
Maximum allowable site tonnage (M _{Safe}) (kg/d)	2.0e6		
Assumed domestic sewage treatment plant flow (m ³ /d) 10000			
Conditions and measures related to external treatment of waste for	disposal		
During manufacturing no waste of the substance is generated [ETW4].			
Conditions and measures related to external recovery of waste			
During manufacturing no waste of the substance is generated [ERW2].			

Section 3 Exposure Estimation

3.1. Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. G21.

3.2. Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model [EE2].

Section 4 Guidance to check compliance with the Exposure Scenario

4.1. Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. G22.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. G23.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. G32. Available hazard data do not support the need for a DNEL to be established for other health effects, G36, Risk Management Measures are based on qualitative risk characterisation. G37.

4.2. Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures [DSU1]. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination [DSU2]. Required removal efficiency for air can be achieved using onsite technologies, either alone or in combination [DSU3]. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html) [DSU4]. Scaled local assessments for EU refineries have been performed using site-specific data and are attached in PETRORISK file in IUCLID section 13 -"Site-Specific Production" worksheet [DSU6].

If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required [DSU8]. Measured data have been used to demonstrate that the PETRORISK predicted fence-line concentrations in air are overestimated. These data support the conclusion that no refineries have RCRs>1 (Appendix 4 and PETRORISK file in IUCLID section 13 - "Tier II worksheet").

Max RCR Water = 9.09E-01 Max RCR Air = 7.03E-01

2. Use of Low Boiling Point Naphthas (Gasoline) as Intermediate - Industrial

Section 1 Exposure Scenario Title Low boil	Section 1 Exposure Scenario Title Low boiling point naphthas (Gasoline) that is classified as			
R45 and/or R46 and/or R62 and/or R63; (containing equal to or greater than 1% to 5% benzene)				
Title				
Use of substance as intermediate				
Use Descriptor				
Sector(s) of Use	3, 8, 9			
Process Categories	1, 2, 3, 8a, 8b, 15			
Environmental Release Categories	6a			
Specific Environmental Release Category ESVOC SpERC 6.1a.v1				
Processes, tasks, activities covered				
Use of substance as an intermediate (not related to strictly controlled conditions) within closed or				

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contained systems. Includes incidental exposures during recycling/ recovery, material transfers, storage,
sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge,
road/rail car and bulk container).

Assessment Method

See Section 3.

Section 2 Operational conditions and risk management measures

Section 2 Operational cont	ditions and risk management measures
Section 2.1 Control of work	ker exposure
Product characteristics	
Physical form of product	Liquid, vapour pressure > 10 kPa at STP OC5
Concentration of substance	Covers percentage substance in the product up to 100 % (unless stated
in product	differently) G13
Amount used	Not applicable
Frequency and duration of	Covers daily exposures up to 8 hours (unless stated differently) G2
use/exposure	
Human factors not	Not applicable
influenced by risk	
management	
Other Operational	Operation is carried out at elevated temperature (> 20°C above ambient
Conditions affecting	temperature). OC7. Assumes a good basic standard of occupational
exposure	hygiene is implemented G1.
Contributing Scenarios	Specific Risk Management Measures and Operating Conditions
General Measures (skin	Avoid direct skin contact with product. Identify potential areas for indirect
irritants). G19.	skin contact. Wear gloves (tested to EN374) if hand contact with substance
	likely. Clean up contamination/spills as soon as they occur. Wash off skin
	contamination immediately. Provide basic employee training to prevent /
	minimise exposures and to report any skin effects that may develop. E3
General Measures	Consider technical advances and process upgrades (including
(carcinogens). G18.	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 staff;
	provide specific activity training to operators to minimise exposures; wear
	suitable gloves (tested to EN374) and coveralls to prevent skin contamination;
	wear respiratory protection when its use is identified for certain contributing
	scenarios; clear up spills immediately and dispose of wastes safely.
	deciration, dical up opinio intribulatory and diopoco of wasted datory.
	Regularly inspect, test and maintain all control measures.
	Consider the need for risk based health surveillance. G20.
CS15 General exposures	Handle substance within closed systems. E47.
(closed systems). + CS56	Sample via a closed loop or other system intended to avoid exposure. E8. Wear
With sample collection.	suitable gloves tested to EN374. PPE15.
CS15 General exposures	Provide extract ventilation to points where emissions occur. E54.
(closed systems).	Handle substance within closed systems. E47.
CS67 Storage.	Wear suitable gloves tested to EN374. PPE15.
	Store substance within a closed system. E84.
CS36 Laboratory activities	Handle within a fume cupboard or implement suitable equivalent methods to
	minimise exposure. E12.
CS14 Bulk transfers	Ensure material transfers are under containment or extract ventilation.
	E66.
CS39 Equipment cleaning	Drain down and flush system prior to equipment break-in or maintenance. E55.
and maintenance	Retain drain downs in sealed storage pending disposal or for subsequent
	recycle. ENVT4.
	Clear spills immediately. C&H13.

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Wear chemically resistant gloves (tested to lintensive management supervision controls.		
Section 2.2 Control of environmental exposure		
Product characteristics		
Substance is complex UVCB [PrC3]. Predominantly hydrophobic [PrC4a].		
Amounts used		
Fraction of EU tonnage used in region	0.1	
Regional use tonnage (tonnes/year)	2.21E6	
Fraction of Regional tonnage used locally	0.0068	
Annual site tonnage (tonnes/year)	1.5e4	
Maximum daily site tonnage (kg/day)	5.0e4	
Frequency and duration of use	0.00	
Continuous release [FD2].		
Emission days (days/year)	300	
Environmental factors not influenced by risk management	12.2.2	
Local freshwater dilution factor	10	
Local marine water dilution factor	100	
Other given operational conditions affecting environmental exposure		
Release fraction to air from process (initial release prior to RMM)	0.025	
Release fraction to wastewater from process (initial release prior to	0.003	
RMM)	0.000	
Release fraction to soil from process (initial release prior to RMM)	0.001	
Technical conditions and measures at process level (source) to prever		
Common practices vary across sites thus conservative process release esting		
Technical onsite conditions and measures to reduce or limit discharge		
to soil	-,	
Prevent discharge of undissolved substance to or recover from wastewater	[TCR14]. Risk from environmental	
exposure is driven by freshwater sediment [TCR1b]. If discharging to dome		
treatment plant, no onsite wastewater treatment required [TCR9].	Ğ	
Treat air emission to provide a typical removal efficiency of (%)	80	
Treat onsite wastewater (prior to receiving water discharge) to provide	92.9	
the required removal efficiency ≥ (%)		
If discharging to domestic sewage treatment plant, provide the required	0	
onsite wastewater removal efficiency of ≥ (%)		
Organisation measures to prevent/limit release from site	•	
Do not apply industrial sludge to natural soils [OMS2]. Sludge should be inc	cinerated, contained or	
reclaimed [OMS3].		
Conditions and measures related to municipal sewage treatment plant		
Estimated substance removal from wastewater via domestic sewage	95.5	
treatment (%)		
Total efficiency of removal from wastewater after onsite and offsite	95.5	
(domestic treatment plant) RMMs (%)		
Maximum allowable site tonnage (M _{Safe}) (kg/d)	7.8e4	
Assumed domestic sewage treatment plant flow (m ³ /d)	2000	
Conditions and measures related to external treatment of waste for dis		
This substance is consumed during use and no waste of the substance is ge	enerated [ETW5].	
Conditions and measures related to external recovery of waste	<u> </u>	
This substance is consumed during use and no waste of the substance is ge	enerated [ERW3].	
Section 3 Exposure Estimation		
3.1. Health		
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.		
G21.	-	
3.2. Environment		
The Hydrocarbon Block Method has been used to calculate environmental e	exposure with the Petrorisk model	
	•	

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[EE2]

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4.1. Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. G22.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. G23.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. G32. Available hazard data do not support the need for a DNEL to be established for other health effects. G36. Risk Management Measures are based on qualitative risk characterisation. G37.

4.2. Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures [DSU1]. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination [DSU2]. Required removal efficiency for air can be achieved using onsite technologies, either alone or in combination [DSU3]. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html) [DSU4].

Max RCR Water = 6,39E-01 Max RCR Air = 2,07E-01

3. Distribution of Low Boiling Point Naphthas (Gasoline) - Industrial

or production of pointing to other trapitation (outcome) intraction		
Section 1 Exposure Scenario Title Low boiling point naphthas (Gasoline) that is classified as R45 and/or R46 and/or R62 and/or R63; (containing equal to or greater than 1% to 5% benzene)		
, ,	italining equal to or greater than 1% to 5% benzene)	
Title		
Distribution of substance		
Use Descriptor		
Sector(s) of Use	3	
Process Categories	1, 2, 3, 8a, 8b, 15	
Environmental Release Categories	1, 2, 3, 4, 5, 6a, 6b, 6c 6d, 7	
Specific Environmental Release Category	ESVOC SpERC 1.1b.v1	
Processes tasks activities covered		

Processes, tasks, activities covered

Bulk loading (including marine vessel/barge, rail/road car and IBC loading) of substance within closed or contained systems, including incidental exposures during its sampling, storage, unloading, maintenance and associated laboratory activities.

Assessment Method

See Section 3.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure		
Product characteristics		
Physical form of product	Liquid, vapour pressure > 10 kPa at STP OC5	
Concentration of substance	Covers percentage substance in the product up to 100 % (unless stated	
in product	differently) G13	
Amount used	Not applicable	
Frequency and duration of	Covers daily exposures up to 8 hours (unless stated differently) G2	
use/exposure		
Human factors not	Not applicable	
influenced by risk		
management		
Other Operational	Assumes use at not more than 20°C above ambient temperature, unless stated	
Conditions affecting	differently. G15. Assumes a good basic standard of occupational	
_	hygiene is implemented G1.	

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exposure			
Contributing Scenarios	Specific Risk Management Measures ar	nd Operating Conditions	
General Measures (skin			
irritants). G19.	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin effects that may develop. E3		
General Measures (carcinogens). G18.	Consider technical advances and process for the elimination of releases. Minimise exmeasures such as closed systems, dedica local exhaust ventilation. Drain down systellines prior to breaking containment. Clean possible, prior to maintenance.	cposure using ted facilities and suitable general / ems and clear transfer	
	Where there is potential for exposure: Res provide specific activity training to operator suitable gloves (tested to EN374) and cover wear respiratory protection when its use is scenarios; clear up spills immediately and	rs to minimise exposures; wear eralls to prevent skin contamination; identified for certain contributing	
	Regularly inspect, test and maintain all cor Consider the need for risk based health su		
CS15 General exposures	Handle substance within closed systems.		
(closed systems). + CS56	Sample via a closed loop or other system i		
With sample collection.	suitable gloves tested to EN374. PPE15.		
CS15 General exposures	Provide extract ventilation to points where	emissions occur. E54.	
(closed systems).	Handle substance within closed systems.		
CS2 Process sampling	Sample via a closed loop or other system to		
CS36 Laboratory activities. Handle within a fume cupboard or implement suitable equivalent methods			
to minimise exposure. E12.			
CS501 Bulk closed loading	01 Bulk closed loading Ensure material transfers are under containment or extract ventilation.		
and unloading.	E66.		
Drain down and flush system prior to equipment break-in or maintenance. E55. Retain drain downs in sealed storage pending disposal or for subsequent recycle. ENVT4. Clear spills immediately. C&H13. Wear chemically resistant gloves (tested to EN374) in combination with intensive management supervision controls. PPE18.		ding disposal or for subsequent D EN374) in combination with	
CS67 Storage.	Ensure operation is undertaken outdoors.		
I	Store substance within a closed system. E		
Section 2.2 Control of envir			
Product characteristics	•		
	PrC3]. Predominantly hydrophobic [PrC4a].		
Amounts used		•	
	n region	0.1	
U U		1.87E7	
Fraction of Regional tonnage used locally 0.002			
Annual site tonnage (tonnes/year) 0.002 3.75E4			
Maximum daily site tonnage (kg/day) 1.2E5			
Maximum daily site tonnage (kg/day) 1.2E5			
Continuous release [FD2].	3 C		
Emission days (days/year)			
Environmental factors not influenced by risk management			
Local freshwater dilution facto		10	
Local marine water dilution fac		100	
Other given operational con	ditions affecting environmental exposure)	

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Release fraction to air from process (initial release prior to RMM)	0.001		
Release fraction to wastewater from process (initial release prior to RMM)	0.00001		
Release fraction to soil from process (initial release prior to RMM)	0.00001		
Technical conditions and measures at process level (source) to preven			
Common practices vary across sites thus conservative process release estin	nates used [TCS1].		
Technical onsite conditions and measures to reduce or limit discharge	s, air emissions and releases		
to soil			
Risk from environmental exposure is driven by humans via indirect exposure			
discharging to domestic sewage treatment plant, no onsite wastewater treatr [TCR9].			
Treat air emission to provide a typical removal efficiency of (%)	90		
Treat onsite wastewater (prior to receiving water discharge) to provide	12		
the required removal efficiency ≥ (%)			
If discharging to domestic sewage treatment plant, provide the required	0		
onsite wastewater removal efficiency of ≥ (%)			
Organisation measures to prevent/limit release from site			
Do not apply industrial sludge to natural soils [OMS2]. Sludge should be incinerated, contained or reclaimed [OMS3].			
Conditions and measures related to municipal sewage treatment plant			
Estimated substance removal from wastewater via domestic sewage	95.5		
treatment (%)			
Total efficiency of removal from wastewater after onsite and offsite	95.5		
(domestic treatment plant) RMMs (%)			
Maximum allowable site tonnage (M _{Safe}) (kg/d)	1.1E6		
Assumed domestic sewage treatment plant flow (m ³ /d)	2000		
Conditions and measures related to external treatment of waste for dis	posal		
External treatment and disposal of waste should comply with applicable loca regulations [ETW3].	ıl and/or national		
Conditions and measures related to external recovery of waste			
External recovery and recycling of waste should comply with applicable local and/or national regulations [ERW1].			
Section 3 Exposure Estimation			

3.1. Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

3.2. Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model [EE2].

Section 4 Guidance to check compliance with the Exposure Scenario

4.1. Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. G22.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. G23.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. G32. Available hazard data do not support the need for a DNEL to be established for other health effects. G36. Risk Management Measures are based on qualitative risk characterisation. G37.

4.2. Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures [DSU1]. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination

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[DSU2]. Required removal efficiency for air can be achieved using onsite technologies, either alone or in combination [DSU3]. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html) [DSU4].

Max RCR Water = 4,32E-02 Max RCR Air = 7,28E-02

4. Formulation & (re)packing of Low Boiling Point Naphthas (Gasoline) – Industrial Section 1 Exposure Scenario Title Low boiling point naphthas (Gasoline) that is classified as

R45 and/or R46 and/or R62 and/or R63; (containing equal to or greater than 1% to 5% benzene)				
Title				
Formulation & (re)packing of su	Formulation & (re)packing of substances and mixtures			
Use Descriptor				
Sector(s) of Use		3, 10		
Process Categories		1, 2, 3, 8a, 8b, 15		
Environmental Release Catego	ories	2		
Specific Environmental Releas		ESVOC SpERC 2.2.v1		
Processes, tasks, activities of	overed			
Formulation of the substance a	nd its mixtures in bat	ch or continuous operations within closed or		
contained systems, including ir	cidental exposures d	luring storage, materials transfers, mixing,		
maintenance, sampling and as	sociated laboratory a	ctivities.		
Assessment Method				
See Section 3.				
Section 2 Operational condi	tions and risk mana	gement measures		
Section 2.1 Control of worker	er exposure			
Product characteristics				
Physical form of product	Liquid, vapour press	sure > 10 kPa at STP OC5		
Concentration of substance in		substance in the product up to 100 % (unless stated		
product	differently) G13			
Amounts used	Not applicable			
Frequency and duration of	Covers daily exposures up to 8 hours (unless stated differently) G2			
use/exposure	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Human factors not	Not applicable			
influenced by risk				
management				
Other Operational	Assumes use at not	more than 20°C above ambient temperature, unless stated		
Conditions affecting	differently. G15. Ass	sumes a good basic standard of occupational		
exposure	hygiene is implemer			
Contributing Scenarios		agement Measures and Operating Conditions		
General Measures (skin		ntact with product. Identify potential areas for indirect		
irritants). G19.		gloves (tested to EN374) if hand contact with substance		
		amination/spills as soon as they occur. Wash off skin		
		diately. Provide basic employee training to prevent /		
	minimise exposures and to report any skin effects that may develop. E3			
General Measures	Consider technical advances and process upgrades (including automation)			
(carcinogens). G18.	for the elimination of releases. Minimise exposure using			
	measures such as closed systems, dedicated facilities and suitable general /			
		tion. Drain down systems and clear transfer		
		ng containment. Clean / flush equipment, where		
	possible, prior to ma	untenance.		
	Whore there is note:	otial for expecure: Postriot access to authorized staff:		
		ntial for exposure: Restrict access to authorised staff;		
	Ibrovide specific activ	vity training to operators to minimise exposures; wear		

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	suitable gloves (tested to EN374) and cover	
wear respiratory protection when its use is identified for certain contributing scenarios; clear up spills immediately and dispose of wastes safely.		
	Regularly inspect, test and maintain all cor	
0045 0	Consider the need for risk based health su	
CS15 General exposures	Handle substance within closed systems.	
(closed systems). + CS56 With sample collection.	Sample via a closed loop or other system suitable gloves tested to EN374. PPE15.	intended to avoid exposure. E8. wea
CS15 General exposures	Provide extract ventilation to points where	emissions occur E54
(closed systems).	Handle substance within closed systems.	
CS2 Process sampling	Sample via a closed loop or other system	
CS36 Laboratory activities	Handle within a fume cupboard or implement to minimise exposure. E12.	ent suitable equivalent methods
CS14 Bulk transfers	Ensure material transfers are under contain	inment or extract ventilation. E66.
CS8 Drum/batch transfers	Ensure material transfers are under contain	
	E66.	
CS39 Equipment cleaning	Drain down and flush system prior to equip	oment break-in or maintenance.
and maintenance	E55.	
	Retain drain downs in sealed storage pending disposal or for subsequent recycle. ENVT4.	
	Clear spills immediately. C&H13.	
	Wear chemically resistant gloves (tested to	
222	intensive management supervision control	s. PPE18.
CS67 Storage.	Store substance within a closed system.	:84. Wear
Section 2.2 Control of env	suitable gloves tested to EN374. PPE15.	
	monnientai exposure	
Product characteristics	[PrC3]. Predominantly hydrophobic [PrC4a].	
Amounts used	[PICS]. Predominantly hydrophobic [PIC4a].	•
Fraction of EU tonnage used	in region	0.1
Regional use tonnage (tonne		1.65e7
Fraction of Regional tonnage		0.0018
Annual site tonnage (tonnes/		3.0e4
Maximum daily site tonnage		1.0e5
Frequency and duration of		<u>.</u>
Continuous release [FD2].		
Emission days (days/year)		300
	influenced by risk management	
_ocal freshwater dilution fact		10
Local marine water dilution fa		100
Other given operational co	nditions affecting environmental exposure	9
Dalagae fraction to air from n	recess (initial release prior to DMM)	0.025
	process (initial release prior to RMM) per from process (initial release prior to	0.025 0.002
RMM)	er nom process (initial release prior to	0.002
Release fraction to soil from	process (initial release prior to RMM)	0.0001
	neasures at process level (source) to prev	
	ss sites thus conservative process release es	
Technical onsite condition: to soil	s and measures to reduce or limit discharg	ges, air emissions and releases
	olved substance to or recover from wastewate	
	riven by humans via indirect exposure (primar	
	wage treatment plant, no onsite wastewater to	
	a typical removal efficiency of (%)	56.5
I root apoita waatawatar (aria	ur to roccuuma water diocherae) to provide	10.4.7

Treat onsite wastewater (prior to receiving water discharge) to provide

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the required removal efficiency ≥ (%)			
If discharging to domestic sewage treatment plant, provide the required	0		
onsite wastewater removal efficiency of ≥ (%)			
Organisation measures to prevent/limit release from site			
Prevent discharge of undissolved substance to or recover from wastewater [
industrial sludge to natural soils [OMS2]. Sludge should be incinerated, conf	tained or reclaimed		
[OMS3].			
Conditions and measures related to municipal sewage treatment plant			
Estimated substance removal from wastewater via domestic sewage	95.5		
treatment (%)			
Total efficiency of removal from wastewater after onsite and offsite	95.5		
(domestic treatment plant) RMMs (%)			
Maximum allowable site tonnage (M _{Safe}) (kg/d)	1.0E5		
Assumed domestic sewage treatment plant flow (m ³ /d)	2000		
Conditions and measures related to external treatment of waste for disposal			
External treatment disposal of waste should comply with applicable regulations [ETW3].			
Conditions and measures related to external recovery of waste			
External recovery and recycling of waste should comply with applicable local and/or national			
regulations [ERW1].			

Section 3 Exposure Estimation

3.1. Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

3.2. Environment

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Section 4 Guidance to check compliance with the Exposure Scenario

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4.2. Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures [DSU1].

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination [DSU2]. Required removal efficiency for air can be achieved using onsite technologies, either alone or in combination [DSU3]. Further details on scaling and control

technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html) [DSU4].

Max RCR Water = 8.52E-01 Max RCR Air = 7,69E-01