This Safety Data Sheet is in accordance with Regulation (EC) No 1907/2006 (REACH).

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

1.1 Product Identifier

Material Name : Dow Open Spec Naphta

CAS No : 68783-12-0

EC No : 272-186-3

REACH Registration No : 01-2119487298-21

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

It is used as raw material for industry.

Details of the supplier of the substance or mixture

Manufacturer/Supplier : Tüpraş

Adress : Türkiye Petrol Rafinerileri A.Ş. Genel Müdürlüğü KÖRFEZ/ KOCAELİ

Telephone : +90 262 316 30 00

Fax : +90 262 316 30 10-11

e-mail : selcen.temeltopallar@tupras.com.tr

yasin.ersoz@tupras.com.tr

1.3 Emergency Telephone Number

Company Telephone : +90 262 316 30 00

2. HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids, Category 1	H224
Skin corrosion/irritation, Category 2	H315
Aspiration hazard, Category 1	H304

Toxic to reproduction, Category 2	H361
Germ cell mutagenicity, Category 1B	H340
Carcinogenicity, Category 1B	H350
Specific target organ toxicity -single exposure	H336
Chronic hazards to the aquatic environment, Category 2	H411

Label Elements

Labelling according to Regulation (EC) No 1272/2008.

Symbols:

GHS02 GHS07 GHS08 GHS09

Signal Word: Danger

Hazard statements

Physical Hazards:

H224 Extremely flammable liquid and vapor.

Health hazards:

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 the unborn child.

. **Environmental Hazards:**

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

P201 Obtain special instructions before use.

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

P260 Do not breathe vapours.

P262 Do not get in eyes, or skin, or on clothing.

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.

P331 Do NOT induce vomiting.

Storage:

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

Disposal:

P501 Dispose of contents and container to appropriate waste site or reclaimed in accordance with local and national regulations.

2.2 Other Hazards

Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO	EINECS NO	Chemical Composition	% Conc.	Risk Phreases (Regulation (EC) No 1272/2008)
68783-12-0	272-186-3	Dow Open Spec Naphta	0-100	Flam. Liq. 1, H224 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

71-43-2	200-753-7	Benzene	< 2	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304

4. FIRST-AID MEASURES

4.1 Description of First Aid Measures

Inhalation: If exposure to vapour, mists or fumes causes drowsiness, headache, blurred vision or irritation of the eyes, nose or throat, remove immediately to fresh air. Keep patient warm and at rest if any symptoms persist obtain medical advice.

Skin Contact: Remove heavily contaminated clothing and wash underlying skin. 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.

Eye Contact: Flush eyes with water while holding eyelids open. If redness, burning, blurred vision, or swelling persist transport to the nearest medical facility for additional treatment.

Ingestion: 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 contamination of the mouth occurs, wash out thoroughly with water. The ingestion of large amounts of product is unlikely.

4.2 Most important symptoms/effects, acute & delayed

Inhalation: If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath.

Skin Contact: Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.

Eye contact: Eye irritation signs and symptoms may include a burning sensation and a temporary redness of the eye.

Ingestion: Swallowing can cause lung damage.

4.3 Indication of immediate medical attention and special treatment needed

There is no specific antidote or treatment. It should be treated symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Foam, water spray, dry chemical powder, carbon dioxide.

DO NOT USE strong water jets.

5.2 Special hazards arising from substance or mixture

Heating causes rise in pressure with risk of bursting. It can burn at high temperatures Vapours may form explosive mixture with air. Combustion results toxic gases. Hazardous combustion products are carbon oxides, sulphur oxides, nitrogen oxides, carbon monoxide.

5.3 Advice for fire-fighters

Ensure an escape path is always available from any fire. Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus. Collect contaminated water separately.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, gloves and eye/face protection. Ventilate contaminated area. Do not breathe fumes, vapour. Do not operate electrical equipment. Remove all possible sources of ignition in the surrounding area. Take precautionary measures against static discharge. In case of fire: Wear self-contained breathing apparatus. Emergency cooling must be provided. Remove product from area of fire. Product may release Hydrogen Sulphide. A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances

6.2 Environmental precautions

Prevent from spreading or entering into drains or water by using sand, earth, or other appropriate barriers. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3 Methods and material for containment and cleaning up

As this product has a very low flash point any spillage or leak is a severe fire and/or explosion hazard. Spilled material may make surfaces slippery. Vapour is heavier than air and may travel to remote sources of ignition (eg. Along drainage systems, in basements etc.). Isolate spillage from all ignition sources including road traffic.

If spillage has occurred in a confined space, ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry. Ensure good ventilation. Wear protective clothing. Large and uncontained spillages should be smothered with foam to reduce the risk of ignition. The foam blanket should be maintained until the area is declared safe. Recovery of large spillages should be effected by specialist personnel. Do not wash product into drainage system. In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. In the event of spillages contact the appropriate authorities.

6.4 Reference to other sections

Refer to sections 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

If vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level. Avoid contact with skin and observe good personal hygiene. Avid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.

7.2 Conditions for safe storage, including any incompatibilities

Store and use only in well ventilated areas away from heat and sources of ignition. Store and use only equipment/containers designed for use with this product. Containers must be properly labelled and kept closed when not in use. Do not remove warning labels from containers. Empty packages may contain some remaining product. Retain hazard warning

labels on empty packages as a guide to the safe handling, storage and disposal of empty packaging. Do not enter storage tanks without breathing apparatus unless the tank has been well ventilated. Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances. Keep only in the original container.

7.3 Specific end use

Except as provided in Section 1.2 is not required to offer any specific suggestions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters The following limits are recommended.

H_2S ACGIH (USA) : TLV 10 ppm (8hr TWA) : 15 ppm (15 min STEL)
Benzene, ACGIH (USA) : TLV 0.5 ppm (8hr TWA): 2.5 ppm (15min STEL)

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Use only outdoors or in a well-ventilated area. Take precautionary measures against static discharge.

8.2.2 Personal protective precautions

Personal protective equipment:

Eyes: Wear chemically resistant gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substance.

Skin: Wear suitable coveralls to prevent exposure to the skin. In case of large spillages; wear full chemical protective clothing.

Inhalation: In case of insufficient ventilation, wear suitable respiratory equipment. In case of fire: Wear self-contained breathing apparatus.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

	Test Unit	Guarantee	Test Method
Appearance		Clear and Bright	Visual inspection
Odour		Hydrocarbon	
Initial boiling point and boiling range	°C	30 - 180	ASTM D 86
Sulphur, max	ppm	500	ASTM D-5452
Specific Gravity (at 15°C)		0.670-0.750	ASTM D 4052

9.2 Other Information

No relevant additional information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Extremely flammable liquid and vapour.

10.2 Chemical Stability

Stable under normal ambient temperatures.

10.3 Possibility of Hazardous Reactions

Product vapors may form explosive mixtures with air.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition source.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Thermal decomposition products will vary with conditions. Combustion will generate smoke, carbon oxides and hydrogen Sulphur.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information given is based on product data, a knowledge of the components and toxicology of similar products.

Acute Oral Toxicity LD50 > 5000 mg/kg, Rat

Acute Dermal Toxicity LD50 >2000 mg/kg, Rabbit

Acute Inhalation Toxicity LC50 >5000 mg/m^3, Rat

Skin Corrosion/Irritation Irritating to skin.

Serious Eye Damage/Irritation Not classified.

Respiratory Irritation Not classified.

Germ Cell Mutagenicity May cause genetic damage.

Carcinogenicity May cause cancer.

Specific target organ toxicity - single exposure High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea.

Specific target organ toxicity - repeated exposure Not classified

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

12. ECOLOGIAL INFORMATION

12.1 Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

Not applicable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Material Disposal:

Dispose of by incineration or other suitable means under conditions approved by the local authority or via a licensed waste disposal contractor. At sea, used or unwanted product should be stored for eventual discharge into port approved waste oil disposal facilities. Empty packages may contain some remaining product. Hazard warming labels are a guide to the safe handling of empty packaging and should not be removed.

Container Disposal:

Drain container thoroughly. After draining, vent in a safe place away from sparks and fire.

Local Legislation:

Ministry of Environment and Urbanism "Regulation on Control of Waste"

14. TRANSPORT INFORMATION

ADR/RID

14.1 UN Number : 1268

14.2 UN proper shipping name : UN 1268 PETROLEUM DISTILLATES, N.O.S.

14.3 Transport hazard class(es) : 3

14.4 Packing group : II

14.5 Environmental hazards : Environmentally Hazardous

14.6 Special precautions for user : Refer to Chapter 7

Inland waterways transport (ADN):

14.1 UN Number : 1268

14.2 UN proper shipping name : UN 1268 PETROLEUM DISTILLATES, N.O.S.

14.3 Transport hazard class(es) : 3

14.4 Packing group : II

14.5 Environmental hazards : Environmentally Hazardous

14.6 Special precautions for user : Refer to Chapter 7

Sea transport (IMDG Code):

14.1 UN Number : 1268

14.2 UN proper shipping name : UN 1268 PETROLEUM DISTILLATES, N.O.S.

14.3 Transport hazard class(es) : 3

14.4 Packing group : II

14.5 Marine pollutant : Yes

14.6 Special precautions for user : Refer to Chapter 7

Air transport (IATA):

14.1 UN Number : 1268

14.2 UN proper shipping name : UN 1268 PETROLEUM DISTILLATES, N.O.S.

14.3 Transport hazard class(es) : 3

14.4 Packing group : II

14.5 Environmental hazards : Environmentally Hazardous

14.6 Special precautions for user : Refer to Chapter 7

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

No data.

15. REGULATORY INFORMATION

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

The contents and format of this SDS are in accordance with EEC Commission Directive 1272/2008/EC (CLP) and EEC Commission Regulation 1907/2006/EC (REACH).

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006

3. Liquid substances or mixtures : Naphta (petroleum), unsweetened

5. Benzene : Benzene

15.2 National Regulations

This Safety Data Sheet is accordance with “Regulation on Safety Data Sheets regarding the Hazardous Substances and Mixtures” published on 13 December 2014 on the official Gazette with No:29204.

Chemical Safety Assesment: For this substance, a chemical safety assessment has been carried out.

16. OTHER INFORMATION

16.1 Other Information

The information presented about health, safety and environment issues in this safety data sheet was given by considering of best knowledge and reliable sources at the date of its preparation. Although maximum effort was shown, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user’s obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission, recommendation or authorization given or implied to practise any patented invention without a valid licence. The TÜPRAŞ shall not be responsible for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.

Abbreviations :

REACH : European Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

RID : Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG : International Maritime Code for Dangerous Goods

IMO : International Maritime Organization

ICAO : International Civil Aviation Organization

IATA : International Air Transport Association

CLP : Classification, Labelling and Packaging Regulation according to 1272/2008/EC

IMDG : International Maritime Danagerous Goods

IATA : International Air Transport Association

16.2 Related Person

Competent Person Accreditation no: TSE GBF-A-0-2828