

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 11/05/2015 Revision date: 18/01/2024 Supersedes version of: 06/04/2023 Version: 2.5

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

1.1.1 Toduct Identifier

Product form

Product name Product code

:	Mixture
:	76840 - 2-Stroke Outboard Engine Oil
:	76840

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

1.2.1. Relevant identified uses

Intended for general public Main use category Function or use category

: Industrial use, Professional use, Consumer use

: Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Transnational Blenders bv Wieldrechtseweg, 37 NL– 3316 BG Dordrecht – Netherlands Zuid Holland Netherlands T +31 (0)78 6527652 technical@tnb.nl - www.tnb.nl

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

EUH-statements

: EUH210 - Safety data sheet available on request.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	≥ 55 – < 75	Not classified
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics substance with national workplace exposure limit(s) (NL); substance with a Community workplace exposure limit	EC-No.: 926-141-6 REACH-no: 01-2119456620- 43	≥ 10 – < 15	Asp. Tox. 1, H304
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic)	CAS-No.: 68784-17-8 EC-No.: 701-204-9 REACH-no: 01-2119960832- 33	≥5-<10	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Residual oils (petroleum), solvent-dewaxed substance with national workplace exposure limit(s) (NL)	CAS-No.: 64742-62-7 EC-No.: 265-166-0 EC Index-No.: 649-471-00-X REACH-no: 01-2119480472- 38	≥5-<10	Not classified

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures after inhalation First-aid measures after skin contact	 Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measu	res
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a water jet since it may cause the fire to spread.
5.2. Special hazards arising from th	e substance or mixture
Hazardous decomposition products in case	e of fire : Toxic fumes may be released.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

5.3. Advice for firefighters	
Precautionary measures fire Firefighting instructions	Exercise caution when fighting any chemical fire.Use water spray or fog for cooling exposed containers.
Protection during firefighting	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective ed	quipment and emergency procedures		
General measures	: Avoid spilling the product, as this might cause falls.		
6.1.1. For non-emergency personnel			
Protective equipment Emergency procedures	: Wear recommended personal protective equipment. : Ventilate spillage area.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			

6.3. Methods and material for containment and cleaning up			
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.		
Methods for cleaning up	: Take up liquid spill into absorbent material.		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Handling temperature Hygiene measures	 Avoid contact with skin and eyes. Ensure good ventilation of the work station. Wear personal protective equipment. ≤ 40 °C Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	g any incompatibilities
Technical measures Storage conditions	 Provide local exhaust or general room ventilation. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well- ventilated place. Keep cool.
Storage temperature Storage area Special rules on packaging	 ≤ 40 °C Store in a well-ventilated place. Store away from heat. Keep only in original container. Store in a closed container.
7.3. Specific end use(s)	

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 8: Exposure controls/personal	protection		
8.1. Control parameters			
8.1.1 National occupational exposure and biological	limit values		
Hydrocarbons, C11-C14, n-alkanes, isoalkane	es, cyclics, < 2% aromatics		
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	1200 mg/m ³		
IOEL TWA [ppm]	165 ppm		
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)		
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	5 mg/m³		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1]	5 mg/m³		

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.





8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hand protection:

Time of penetration is to be checked with the glove producer

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR), Neoprene rubber (HNBR)	5 (> 240 minutes)	0.7	3 (> 0.65)	EN ISO 374
	Polyvinylchloride (PVC)	2 (> 30 minutes)	0.4	3 (> 0.65)	EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

9.1. Information on basic physical and ch	nemical properties
Physical state Colour Odour	: Liquid : brown. : Not available
Odour threshold Melting point Freezing point Boiling point Flammability Lower explosion limit Upper explosion limit Flash point Auto-ignition temperature Decomposition temperature pH	 Not available Not applicable -33 °C (ASTM D7346) Not available Non flammable. Not available Not available > 92 °C (ASTM D92) Not available
Viscosity, kinematic Solubility Partition coefficient n-octanol/water (Log Kow) Vapour pressure Vapour pressure at 50°C Density Relative density Relative vapour density at 20°C Particle characteristics	 Not available 45.6 mm²/s @ 40°C (ASTM D7042) insoluble in water. Not available Not available 877 kg/m³ @ 15°C (ASTM D4052) Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Not classified	
Hydrocarbons, C11-C14, n-alkanes, isoalkane	es, cyclics, < 2% aromatics	
LD50 oral (rat)	> 5000 mg/kg	
LD50 dermal (rabbit)	> 5000 mg/kg	
LC50 inhalation (rat) (mg/l)	> 5000 mg/m³ 8 Hrs	
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) (68784-17-8)		
LD50 oral (rat)	> 5000 mg/kg	
LD50 dermal (rabbit)	> 2000 mg/kg	
Residual oils (petroleum), solvent-dewaxed (64742-62-7)		
LD50 oral (rat)	> 5000 mg/kg	
LD50 dermal (rat)	> 2000 mg/kg	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test	
LD50 dermal (rabbit)	> 2000 mg/kg 402 Acute Dermal Toxicity Test	
LC50 inhalation (rat) (mg/l)	> 5000 mg/l/4h	
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test	
Skin corrosion/irritation :	Not classified	
Serious eye damage/irritation :	Not classified	
Respiratory or skin sensitisation :	Not classified	
Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Not classified	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reproductive toxicity :	Not classified	
Reaction products of fatty acids, C14-C18 (brack) (linear, branched, cyclic) (68784-17-8)	anched and linear) and C18 (unsaturated) with tetraethylenepentamine	
NOAEL (animal/male, F1)	> 1000 mg/kg	
STOT-single exposure :	Not classified	
STOT-repeated exposure :	Not classified	
Distillates (petroleum), hydrotreated heavy pa	uraffinic (64742-54-7)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408	
Aspiration hazard : Not classified		
76840 - 2-Stroke Outboard Engine Oil		
Viscosity, kinematic	45.6 mm²/s @ 40°C (ASTM D7042)	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
Viscosity, kinematic	2.4 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'	
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) (68784-17-8)		
Viscosity, kinematic	76.34 mm²/s @100°C	
Residual oils (petroleum), solvent-dewaxed (64742-62-7)		
Viscosity, kinematic	490 mm²/s @40°C	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
Viscosity, kinematic	≈ 98 mm²/s @ 40°C	
11.2. Information on other hazards		

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : (acute)	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified Not classified	
Hydrocarbons, C11-C14, n-alkanes, isoalkane	s, cyclics, < 2% aromatics	
LC50 - Fish [1]	> 1000 mg/l Oncorhynchus mykiss	
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna	
EC50 72h - Algae [1]	> 1000 mg/l Pseudokirchneriella subcapitata	
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) (68784-17-8)		
LC50 - Fish [1]	> 1000 mg/l Pimephales promelas	
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna	
EC50 96h - Algae [1]	94 mg/l Pseudokirchneriella subcapitata	
NOEC chronic crustacea	> 32 mg/l Daphnia magna (21d)	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) (68784-17-8)		
NOEC chronic algae	23 mg/l Selenastrum capricornutum (4d)	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
LC50 - Fish [1]	> 100 mg/l Pimephales promelas	
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna	
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitat	
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)	
NOEC chronic crustacea	10 mg/l Daphnia magna (21d)	
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)	
12.2. Persistence and degradability		
Hydrocarbons, C11-C14, n-alkanes, isoalkane	s, cyclics, < 2% aromatics	
Biodegradation	69 % OECD 301F (28d)	
Reaction products of fatty acids, C14-C18 (bra (linear, branched, cyclic) (68784-17-8)	anched and linear) and C18 (unsaturated) with tetraethylenepentamine	
Biodegradation	4.5 % OECD TG 301 B (28d)	
Distillates (petroleum), hydrotreated heavy pa	iraffinic (64742-54-7)	
Persistence and degradability	Not readily biodegradable.	
Biodegradation	31 % OECD TG 301 F (28d)	
12.3. Bioaccumulative potential		
Reaction products of fatty acids, C14-C18 (bra (linear, branched, cyclic) (68784-17-8)	anched and linear) and C18 (unsaturated) with tetraethylenepentamine	
Partition coefficient n-octanol/water (Log Kow)	> 9.36	
Residual oils (petroleum), solvent-dewaxed (6	;4742-62-7)	
Partition coefficient n-octanol/water (Log Pow)	> 3.5	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
Partition coefficient n-octanol/water (Log Pow)	3.9 - 6	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		
12.7. Other adverse effects		
No additional information available		

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Waste treatment methods European List of Waste (LoW, EC 2000/532) HP Code	 Dispose of contents/container in accordance with licensed collector's sorting instructions. 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber	· · · · ·		·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary informatio	n available	1		

14.6. Special precautions for user

Overland transport Not applicable

Transport by sea Not applicable

Air transport Not applicable

Inland waterway transport Not applicable

Rail transport Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:		
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:	
Asp. Tox. 1	Aspiration hazard, Category 1
EUH210	Safety data sheet available on request.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
Skin Irrit. 2	Skin corrosion/irritation, Category 2

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.