

SAFETY DATA SHEET SHOW HI

According to EC Regulation 1907/2006/EC - revision 2015/830

Revision No. 3.2

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

1.1. Product identifier

Product Name SHOW HI
Product Code 10247373X1 (CLP)

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

Recommended use

Protective Coating.

1.3. Details of the supplier of the safety data sheet

NCH UK & Ireland, NCH House, Springvale Avenue, Bilston, WV14 0QL Tel (UK): 01902 510200, Tel (Ireland): 042 939 5502
E-mail address technical_uk@nch.com
Website address www.ncheurope.com

1.4. Emergency telephone number

UK - 01902 510200 (available during Office Hours)
In Republic of Ireland (available from 8am to 10pm daily): 01 809 2166

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) and its adaptations

Flammable liquid: Category 3
H226 - Flammable liquid and vapour
EUH066 - Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)

Hazard pictograms



Signal word Warning

Hazard Statements

H226 - Flammable liquid and vapour

EU classification for GHS template

EUH066 - Repeated exposure may cause skin dryness or cracking.

Precautionary Statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P370 + P378 - In case of fire, use water spray/foam/chemical powder to extinguish.

For industrial and institutional use only.

Keep out of reach of children.

2.3. Other hazards

No additional hazards identified.

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

3.2 Mixture

Chemical Name	CAS-No.	EC No.	EU - REACH reg number	Weight-%	EU - GHS/CLP Classification	Notes
NAPHTHA (PETROLEUM) HYDRODESULFURIZED HEAVY	64742-82-1	265-185-4	01-2119490979-12	25 - < 50	Asp. Tox. 1 (H304)	P
HYDROCARBONS, C12-C15, ALKANES	64742-47-8	265-149-8	01-2119456620-43	25 - < 50	Asp. Tox. 1 (H304)	
STODDARD SOLVENT	8052-41-3	232-489-3	.	5 - < 10	Asp. Tox. 1 (H304)	P
1,2,4-TRIMETHYLBENZENE	95-63-6	202-436-9	01-2119472135-	1 - < 3	Skin Irrit. 2 (H315)	P

		42			Flam. Liq. 3 (H226) STOT SE 3 (H335) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)
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For any H statements mentioned in this section, see the full text in section 16.

EU Notes

Note P - The classification as a carcinogen or mutagen does not apply as the substance contains less than 0.1% w/w benzene

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice

Avoid breathing vapours or mists. Get medical attention immediately if symptoms occur.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician immediately.

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth with water. If swallowed, do not induce vomiting - seek medical advice.

Inhalation

If problems with breathing occur, move to fresh air. If symptoms persist, call a physician. If exposed to high concentrations of the vapours / mists, move to fresh air.

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

Sensitisation

No information available.

Eye contact

May cause irritation as itching and redness.

Skin contact

Unlikely to be irritant on brief or occasional exposure.

Inhalation

Inhalation of mists may result in irritation to the respiratory tract. May cause headaches, dizziness, drowsiness and nausea.

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

Notes to physician

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use: Dry powder. Alcohol-resistant foam. Water spray.

Extinguishing media which must not be used for safety reasons

Water jet.

5.2. Special hazards arising from the substance or mixture

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide.

Material can create slippery conditions.

5.3. Advice for firefighters

Firefighters should wear a self-contained breathing apparatus and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes, and clothing. Remove all sources of ignition. Ventilate the area. Evacuate personnel to safe areas. Prevent further leakage or spillage if safe to do so. Use personal protective equipment. See section 8. Material can create slippery conditions.

6.2. Environmental precautions

Avoid release of neat product into surface water and sanitary sewage system. Prevent further leakage or spillage if safe to do so. Insoluble in water and hence will float on the surface. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning upMethods for Containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Remove all sources of ignition.

Methods for Cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

Refer to sections 7, 8 and 13.

SECTION 7. HANDLING AND STORAGE**7.1. Precautions for safe handling**

Avoid breathing vapours or mists. Do not eat, drink or smoke when using this product. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Ensure adequate ventilation.

Use of secondary containment is recommended i.e impermeable floors / surfaces which will help contain any spills.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Store in accordance with local regulations.

7.3. Specific end use(s)

No information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**Exposure limits

If vapours, fumes or mists are generated, their concentration in the workplace area should be kept to the lowest reasonable level. For substances.

Chemical Name	European Union	The United Kingdom	France	Germany	Austria
HYDROCARBONS, C12-C15, ALKANES				Peak: 40ppm Peak: 280mg/m ³ TWA: 20ppm TWA: 140mg/m ³	
1,2,4-TRIMETHYLBENZENE		STEL: 75 ppm STEL: 375 mg/m ³ TWA: 25 ppm TWA: 125 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ 1000 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ 1500 mg/m ³	AGW: 20ppm AGW: 100mg/m ³ Peak: 40ppm Peak: 200mg/m ³ TWA: 20ppm TWA: 100mg/m ³ BGW: 400mg/g	STEL: 30 ppm STEL: 150 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³

Chemical Name	Spain	Portugal	Italy	The Netherlands	Switzerland
NAPHTHA (PETROLEUM) HYDRODESULFURIZED HEAVY	Skin STEL: 100 ppm STEL: 580 mg/m ³ TWA: 50 ppm TWA: 290 mg/m ³				
STODDARD SOLVENT		TWA: 100 ppm			TWA: 100 ppm TWA: 525 mg/m ³
1,2,4-TRIMETHYLBENZENE	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ 25 ppm	TWA: 20 ppm TWA: 100 mg/m ³	STEL: 200 mg/m ³ TWA: 100 mg/m ³	STEL: 40 ppm STEL: 200 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³

Chemical Name	Denmark	Finland	Norway	Sweden	Czech
STODDARD SOLVENT	TWA: 25 ppm TWA: 145 mg/m ³			0.1 mg/m ³ inhalable dust 60 ppm 350 mg/m ³ 100 ppm 600 mg/m ³	PEL: 200mg/m ³ NPK-P: 1000mg/m ³
1,2,4-TRIMETHYLBENZENE	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	25 ppm	PEL: 100mg/m ³

	TWA: 100 mg/m ³	TWA: 100 mg/m ³	TWA: 100 mg/m ³	120 mg/m ³ 35 ppm 170 mg/m ³	NPK-P: 250mg/m ³
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Chemical Name	Poland	Ireland
NAPHTHA (PETROLEUM) HYDRODESULFURIZED HEAVY	NDSch: 900 mg/m ³ NDS: 300 mg/m ³	
STODDARD SOLVENT	NDSch: 900 mg/m ³ NDS: 300 mg/m ³	TWA: 100 ppm TWA: 573 mg/m ³
1,2,4-TRIMETHYLBENZENE	NDSch: 170 mg/m ³ NDS: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 60 ppm STEL: 300 mg/m ³ Skin

8.2. Exposure controls

Engineering Measures

Local ventilation is suggested to control exposure from operations that can generate significant levels of vapour, mist or fumes. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Use personal protection equipment as per Directive 89/686/EEC.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection. Conforming to EN 14387 (organic vapours). Do not breathe vapours or spray mist.

Hand Protection

Wear suitable protective gloves conforming to EN 374. Type of gloves suggested: Polyvinyl alcohol. Solvent-resistant gloves (butyl-rubber). Fluorinated rubber. For break through times, refer to glove manufacturers recommendations.

Eye Protection

Safety glasses if the method of use presents the likelihood of eye contact. Approved to EN 166.

General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practise. Wash hands before breaks and at the end of workday.

Environmental exposure controls

Local authorities should be advised if significant spillages cannot be contained.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Information below relates to typical values and does not constitute a specification.

Appearance	Brown	Specific Gravity	0.82
Physical State	Liquid	Solubility	Insoluble in water
Odour	Cherry	Autoignition Temperature	230 °C
pH	Not applicable.	Viscosity	> 21cSt (40°C)
Melting Point/Range	No information available.	Explosive properties	No information available
Boiling Point/Range	200 °C	Oxidizing Properties	No information available.
Flash Point	45 °C	VOC Content (%)	80.3 %
Method	Closed cup		
Evaporation Rate	No information available.		
Flammability Limits in Air %	No information available.		
Vapor Pressure	No information available.		
Vapor Density	No information available.		

9.2. Other information

No other information available

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Not considered as highly reactive. See further information below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use.

10.4. Conditions to avoid

Heat, flames, and sparks.

10.5. Incompatible materials

Strong oxidising agents.

10.6. Hazardous decomposition products

None under normal storage conditions and use.

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

The product itself has not been tested.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
NAPHTHA (PETROLEUM) HYDRODESULFURIZED HEAVY	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	
HYDROCARBONS, C12-C15, ALKANES	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
1,2,4-TRIMETHYLBENZENE	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h

Sensitisation

No information available.

Skin contact

Unlikely to be irritant on brief or occasional exposure.

Inhalation

Inhalation of mists may result in irritation to the respiratory tract. May cause headaches, dizziness, drowsiness and nausea.

Eye contact

May cause irritation as itching and redness.

Carcinogenicity

There are no known carcinogenic substances in this product.

Mutagenic Effects

There are no known mutagenic substances in this product.

Reproductive Effects

There are no known substances in this product with effects on reproduction.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Product Information

The product itself has not been tested.

Ecotoxicity effects

Contains substance(s) known to be hazardous to the aquatic environment.

Chemical Name	Toxicity to Fish	Water Flea	Toxicity to Algae
HYDROCARBONS, C12-C15, ALKANES	LC50 = 45 mg/L Pimephales promelas 96 h LC50 = 2.2 mg/L Lepomis macrochirus 96 h LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h		
1,2,4-TRIMETHYLBENZENE	LC50 7.19-8.28 mg/L Pimephales promelas 96 h LC50 = 7.72 mg/L Pimephales promelas 96 h	6.14: 48 h Daphnia magna mg/L EC50	

12.2. Persistence and degradability

Ecotoxicological properties are substance specific, i.e. bioaccumulation, persistence and degradability. The information is given, where available and appropriate, for substance(s) of the mixture.

12.3. Bioaccumulative potential

Bioaccumulation unlikely due to the high volatility of the product. Component information below.

Chemical Name	log Pow
1,2,4-TRIMETHYLBENZENE	3.63

12.4. Mobility in soil

The product is insoluble and floats on water. This preparation is volatile and will readily evaporate to the air if released into the environment.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

12.6. Other adverse effects

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal. Recycle according to official regulations. For empty containers - Do not weld, solder, braze, grind etc.. Do not expose to heat, flames, sparks or other sources of ignition.

EWC waste disposal No

The following EWC/ AVV waste codes may be applicable:

07 07 04* other organic solvents, washing liquids and mother liquors

14 06 03* other solvents and solvent mixtures

Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific

SECTION 14. TRANSPORT INFORMATION**14.1, 14.2, 14.3, 14.4.**

IMDG/IMO

UN Number	UN3295
UN proper shipping name	Hydrocarbons, liquid, n.o.s.
Hazard Class	3
Packing Group	III
EmS	F-E, S-D

ADR / RID

UN-No	UN3295
Hazard Class	3
Packing Group	III
Classification Code	F1
Limited Quantity	5 L
Transport Cat. (Tunnel Restriction Code)	3 (D/E)

IATA/ICAO

UN-No	UN3295
Hazard Class	3
Packing Group	III
ERG Code	3L

14.5. Environmental hazards

The mixture is not environmentally hazardous for transport

14.6. Special precautions for user

No special precautions.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Packaged product, not typically transported in IBC's.

Additional information

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

SECTION 15. REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This mixture was classified in compliance with EC Regulation 1272/2008 (CLP) and its adaptations.

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier

SECTION 16. OTHER INFORMATION**Text of H statements mentioned in Section 3**

H226 - Flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H411 - Toxic to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

On the basis of test data. H226 - Flammable liquid and vapour.

Prepared By Austen Pimm

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Revision summary

CLP update. SDS sections updated 2 15 3 16

Abbreviations

REACH: Registration Evaluation Authorisation Restriction of Chemicals

EU: European Union

EC: European community

EEC: European Economic Community

UN: United Nations

CAS: Chemical Abstracts Service

PBT: Persistent Bioaccumulative Toxic

vPvB: very Persistent very Bioaccumulative

LC50: Lethal concentration, 50 percent
LD50 : Lethal dose, 50 percent
EC50: Effective concentration, 50 percent
LogPow: LogP octanol/water
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany)
WGK: Wassergefährdungsklasse (Water Hazard Class - Germany).
AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany)
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road)
IMDG: International Maritime Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International carriage of Dangerous goods by rail)
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
ERG: Emergency Response Guidebook
IUCLID / RTECS International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances
GHS: Globally Harmonised System of classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
VOC: Volatile Organic Chemical
w/w: weight for weight
DMSO: Dimethyl sulphoxide
OECD: Organization for Economic Cooperation and Development
STEL: Short Term Exposure Limit
TWA: Time Weighted Average

Further Information

Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature sources e.g. IUCLID / RTECS

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet