

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 24/04/2017 Revision date: 30/06/2020 Supersedes version of: 01/06/2018 Version: 5.0

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

#### 1.1. Product identifier

Product form Product name UFI Product code	<ul> <li>Mixture</li> <li>Heavy Duty Machine Detergent</li> <li>WWRN-W0CN-P00R-JWJN</li> <li>33-037</li> </ul>
1.2. Relevant identified uses of the substan	nce or mixture and uses advised against
1.2.1. Relevant identified uses Industrial/Professional use spec Use of the substance/mixture	: For professional use only : Cleaning Product
1.2.2. Uses advised against Restrictions on use	: Anything other than intended use as listed on the label.
<b>1.3. Details of the supplier of the safety dat</b> Arrow County Supplies Arrow House Longden Road Shrewsbury SY3 9AE Tel: 01743 283600 Fax: 01743 283601 Email: sales@arrowcounty.com	ta sheet
1.4. Emergency telephone number	
Emergency number	: 01743 283600 Monday - Friday (09:00 - 17:00)

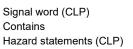
#### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2	2008 [CLP]
Skin corrosion/irritation, Category 1	H314
Serious eye damage/eye irritation, Category 1	H318
Full text of H statements : see section 16	
Adverse physicochemical, human health and environm	nental effects

Causes severe skin burns and eye damage. Causes serious eye damage.

#### 2.2. Label elements

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



GHS05

- : Danger
- : sodium hydroxide; caustic soda
- : H314 Causes severe skin burns and eye damage.

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Precautionary statements (CLP)	: P280 - Wear eye protection, protective gloves.
	P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water .
	P310 - Immediately call a POISON CENTER or doctor.

#### 2.3. Other hazards

No additional information available

#### **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]
tetrasodium (1-hydroxyethylidene)bisphosphonic acid	(CAS-No.) 3794-83-0 (EC-No.) 223-267-7 (REACH-no) 01-2119510382-52	≥ 1 – < 10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
sodium hydroxide; caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6 (REACH-no) 01-2119457892-27	≥ 1 – < 10	Skin Corr. 1A, H314

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
tetrasodium (1-hydroxyethylidene)bisphosphonic acid	(CAS-No.) 3794-83-0 (EC-No.) 223-267-7 (REACH-no) 01-2119510382-52	( 30 <c 100)="" 2,="" <="" eye="" h319<="" irrit.="" td=""></c>
sodium hydroxide; caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6 (REACH-no) 01-2119457892-27	( 0.5 ≤C < 2) Skin Irrit. 2, H315 ( 0.5 ≤C < 2) Eye Irrit. 2, H319 ( 2 ≤C < 5) Skin Corr. 1B, H314 ( 5 ≤C ≤ 100) Skin Corr. 1A, H314

Full text of H-statements: see section 16

#### **SECTION 4: First aid measures**

4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	<ul> <li>Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.</li> </ul>
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and eff	fects, both acute and delayed
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.		
5.2. Special hazards arising from the substance or mixture			
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Advice for firefighters			
Protection during firefighting	<ul> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>		

SECTION 6: Accidental release n	neasures
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
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 contain	nment and cleaning up
Methods for cleaning up Other information	<ul><li>Take up liquid spill into absorbent material.</li><li>Dispose of materials or solid residues at an authorized site.</li></ul>
6.4. Reference to other sections	
For further information refer to section 13.	

SECTION 7: Handling and stora	ge
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.</li> <li>Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>
7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage conditions Incompatible products Special rules on packaging	<ul> <li>Store locked up. Store in a well-ventilated place. Keep cool.</li> <li>Oxidizing agent. Strong acids. Strong bases.</li> <li>Keep only in original container. Store in a closed container.</li> </ul>
7.3. Specific end use(s)	

No additional information available

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SECTION 8: Exposure controls/personal protection		
Ireland - Occupational Exposure Limits		
Sodium hydroxide		
2 mg/m <sup>3</sup>		
Chemical Agents Code of Practice 2020		
United Kingdom - Occupational Exposure Limits		
Sodium hydroxide		
2 mg/m³		
EH40/2005 (Fourth edition, 2020). HSE		

8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:	
Chemical resistant gloves (according to European standard EN 374 or equivalent)	

#### Eye protection:

Safety glasses. Use eye protection according to EN 166.

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

Not required under normal conditions of use.

#### Personal protective equipment symbol(s):



#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

PPE should be worn to prevent any contact with the chemical. Any contaminated clothing should be washed prior to re-use.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow.
Odour	: odourless.
Odour threshold	: No data available
рН	: > 11.5
Relative evaporation rate (butylacetate=1)	: No data available

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Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.09 – 1.1
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

#### **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

No additional information available

**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 toxicological effects		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>	
tetrasodium (1-hydroxyethylidene)bisphosphonic acid (3794-83-0)		
LD50 oral rat	2850 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2489 - 3211	
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LD50 dermal	> 5000 mg/kg	

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Skin corrosion/irritation	: Causes severe skin burns.
	pH: > 11.5
Serious eye damage/irritation	: Causes serious eye damage.
	pH: > 11.5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

tetrasodium (1-hydroxyethylidene)bisphosphonic acid (3794-83-0)		
NOAEL (chronic, oral, animal/male, 2 years)	≥ 384 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: carcinogenicity (migrated information)	
NOAEL (chronic, oral, animal/female, 2 years)	≥ 493 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: carcinogenicity (migrated information)	
Reproductive toxicity	Not classified	
STOT-single exposure	Not classified	
STOT-repeated exposure	Not classified	

tetrasodium (1-hydroxyethylidene)bisphosphonic acid (3794-83-0)		
LOAEL (oral, rat, 90 days) 169 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)		

Aspiration hazard

: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general Hazardous to the aquatic environment, short-term (acute)	: Before neutralisation, the product may represent a danger to aquatic organisms. : Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

sodium hydroxide; caustic soda (1310-73-2)	
EC50 Daphnia 1	40.4 mg/l Test organisms (species): Ceriodaphnia sp.

tetrasodium (1-hydroxyethylidene)bisphosphonic acid (3794-83-0)		
LC50 fish 1	195 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 Daphnia 1	527 mg/l Test organisms (species): Daphnia magna	
NOEC (chronic)	6.75 mg/l Test organisms (species): Daphnia magna Duration: '28 d'	

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

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# 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects

No additional information available

#### SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

#### **SECTION 14: Transport information**

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN 1824	UN 1824	UN 1824	UN 1824	UN 1824
14.2. UN proper shippin	g name			
SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	Sodium hydroxide solution	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION
Transport document descr	iption			
UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E)	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II	UN 1824 Sodium hydroxide solution, 8, II	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II	UN 1824 SODIUM HYDROXIDE SOLUTION 8, II
14.3. Transport hazard o	lass(es)			
8	8	8	8	8
B	B	B	B	B
14.4. Packing group				
II	II	II	II	II
14.5. Environmental haz	ards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary informatio	n available			
4.6. Special precaution	s for user			

Classification code (ADR)	:	C5
Limited quantities (ADR)	:	11
Excepted quantities (ADR)	:	E2
Packing instructions (ADR)	:	P001, IBC02
Mixed packing provisions (ADR)	:	MP15
Portable tank and bulk container instructions (ADR)	:	T7

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Portable tank and bulk container special provisions	: TP2
(ADR)	
Tank code (ADR)	: L4BN
Tank special provisions (ADR)	: TU42
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 80
Orange plates	<b>80</b> <b>1824</b>
Tunnel restriction code (ADR)	: E
EAC code	: 2R
Transport by sea	
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Segregation (IMDG)	: SG35
Properties and observations (IMDG)	: Colourless liquid. Colourless liquid. Reacts with ammonium salts, evolving ammonia
	gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids.
Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L
Inland waterway transport	
Classification code (ADN)	: C5
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: C5
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions	: TP2
(RID)	
Tank codes for RID tanks (RID)	: L4BN
Special provisions for RID tanks (RID)	: TU42
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE6
Hazard identification number (RID)	: 80
( · )	

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 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**

#### Abbreviations and acronyms:

Abbreviations and acron	yms.
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
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
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
OEL	Occupational Exposure Limit
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet

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vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	

SDS EU (REACH Annex II)

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.