AR-CO CH	IIMICA S.R.L.	Revision nr. 1
		Dated 29/12/2014
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	Safety data sheet	
SECTION 1 Identification of the subs	tance/mixture and of the company/under	takina
	tance/mixture and of the company/under	taking
1.1. Product identifier		
Product name	DET BASIC	
1.2. Relevant identified uses of the substance or m Intended use DETERGENT ONLY FOR	ixture and uses advised against DR INDUSTRIAL/PROFESSIONAL USING.	
HIGH ALKALINITY FO		
1.3. Details of the supplier of the safety data sheet		
Name	AR-CO CHIMICA S.R.L.	
Full address District and Country	Via Canalazzo 22/24 41036 MEDOLLA (MO)	
	ITALY	
	Tel. +39 053558890	
	Fax +39 053558898	
e-mail address of the competent person		
responsible for the Safety Data Sheet Product distribution by	reach@arcochimica.it AR-CO CHIMICA	
1.4. Emergency telephone number For urgent inquiries refer to Numeri telefonici dei principali Centri Antiveleni italia Centro Antiveleni di Milano 02 66101029 (CAV Ospec Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS F Centro Antiveleni di Bergamo 800 883300 (CAV Ospec Centro Antiveleni di Firenze 055 7947819 (CAV Ospec Centro Antiveleni di Firenze 055 7947819 (CAV Ospec Centro Antiveleni di Roma 06 3054343 (CAV Policlini Centro Antiveleni di Roma 06 49978000 (CAV Policliri Centro Antiveleni di Napoli 081 7472870 (CAV Ospec AR-CO CHIMICA +39 053558890 (ORE UFFICIO / OFFICE HOURS 08:0	lale Niguarda Ca` Granda -Milano) (H24) ondazione Maugeri - Pavia) edali Riuniti - Bergamo) dale Careggi - Firenze) co Gemelli - Roma) nico Umberto I - Roma) ale Cardarelli - Napoli)	
SECTION 2. Hazards identification.		
2.1. Classification of the substance or mixture.		
supplements). The product thus requires a safety datash	e provisions set forth in EC Regulation 1272/2008 (CLP) eet that complies with the provisions of EC Regulation 1907/ and/or the environment are given in sections 11 and 12 of t	2006 and subsequent amendments.

2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:	
Skin Corr. 1A	H314
Eye Dam. 1	H318

2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments. Danger Symbols: C

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R phrases: 35

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Hazard statements:

H314	Causes severe skin burns and eye damage.
Precautionary statements:	

Danger

Contains: POTASSIUM HYDROXIDE

2.3. Other hazards.

Information not available.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification. POTASSIUM HYDROXIDE	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
CAS. 1310-58-3	9 - 30	C R35, Xn R22	Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314
EC. 215-181-3			
INDEX. 019-002-00-8			
Reg. no. 01-2119487136-33-0000			
PENTABASIC SODIUM TRIPHOSPHATE			
CAS. 7758-29-4	1 - 5	Xi R36/37/38	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335

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EC. 231-838-7					
INDEX					
Reg. no. 01-2119430450-54					
LAURYLDIMETHYLAMINE OXIDE					
CAS. 1643-20-5	1 - 3	Xi R38, Xi R41, N R50	Eye Dam Acute 1 F	. 1 H318, Skin Irrit. 2 H315, Aquatic 1400 M=1	
EC. 216-700-6					
INDEX					
(1-idrossietilidene) acido bisfosfonico, sale sodico					
CAS. 3794-83-0 EC	1 - 5	Xn R22, Xi R36	Acute To:	x. 4 H302, Eye Irrit. 2 H319	
INDEX					
Reg. no. 01-2119510382-52-0001					

Note: Upper limit is not included into the range.

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet. T + = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F + = ExtremelyFlammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

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5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

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United Kingdom Éire OEL EU TLV-ACGIH	EH40/2005 Wor limits for use wit amended). Code of Practice Directive 2009/1 2000/39/EC. ACGIH 2012	h the Control e Chemical A	of Substar gent Regul	nces Hazardous ations 2011.	to Health Re	egulations (as
POTASSIUM HYDRO						
Threshold Limit Valu		T\A/A /0h		OTEL /45min		
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH				2 (C)		
OEL	IRL			2		
WEL	UK			2		
(1-idrossietilidene) a Predicted no-effect conc Normal value in fresh wa Normal value in marine v Normal value for fresh w	entration - PNEC. ter vater	ale sodico		136 0,0136 59		mg/L mg/L mg/Kg
egend:						
C) = CEILING ; INH,	AL = Inhalable Fractio	n ; RESP = R	espirable Fra	ction ; THORA = T	horacic Fractio	n.
ND = hazard identified	but no DNEL/PNEC	available ; NE	A = no expos	ure expected ; NF	PI = no hazard i	dentified.
8.2. Exposure contro	ols.					
as the use of adequate nrough effective local a Vhen choosing persona Personal protective equ	aspiration. al protective equipme	nt, ask your cher	nical substan	ce supplier for advice	э.	make sure that the workplace is well a
Provide an emergency	shower with face and	eye wash statio	٦.			
IAND PROTECTION Protect hands with cate The following should be the work gloves' resistand type of use.	considered when cho	oosing work glov	e material: co			e and permeability. e gloves' wear time depends on the dur
KIN PROTECTION Vear category III profe nd water after removir		overalls and safe	ety footwear (s	see Directive 89/686	/EEC and stand	dard EN ISO 20344). Wash body with s
	atactiva vicar combin	a di suddhi a fadhalar a	. ,			

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold

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values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

POTASSIUM HYDROXIDE: attacks aluminium, tin, lead and zinc. Reacts violently with acids.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

POTASSIUM HYDROXIDE: naked flames and heat.

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10.5. Incompatible materials.

POTASSIUM HYDROXIDE: Acids, metals, some plastics and rubber, water, halogenated hydrocarbons and maleic anhydride.

10.6. Hazardous decomposition products.

POTASSIUM HYDROXIDE: When boiled, it develops phosphine. Above decomposition temperature toxic potassium oxide fumes may develop.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

This product is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration. Possible vapours are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours.

Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness.

If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation.

Vapour inhalation may moderately irritate the upper respiratory trait. Contact with skin may cause slight irritation.

Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

(1-idrossietilidene) acido bisfosfonico, sale sodico LD50 (Oral). > 2850 mg/Kg

POTASSIUM HYDROXIDE LD50 (Oral). 333 mg/kg Rat

SECTION 12. Ecological information.

12.1. Toxicity.

LAURYLDIMETHYLAMINE OXIDE LC50 - for Fish. 1 mg/l/96h

(1-idrossietilidene) acido bisfosfonico, sale sodico LC50 - for Fish. > 300 mg/l/96h EC50 - for Crustacea. > 500 mg/l/48h

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

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Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%. **12.6. Other adverse effects.**

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Avoid littering. Do not contaminate soil, sewers and waterways.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

d rail transport: ADR/RID Class:	8	UN:	3266
Packing Group:	II		
Label:	8		
Nr. Kemler:	80		
Proper Shipping Name:	CORROSIVE LIQUID	, BASIC, INORGANIC, N.O.S.	
by sea (shipping): IMO Class:	8	UN:	3266
Packing Group:	Ш		
Label:	8		
EMS:	F-A, S-B		
Marine Pollutant.	NO		
r t by air: IATA:	8	UN:	3266
Packing Group:	II		
	ADR/RID Class: Packing Group: Label: Nr. Kemler: Proper Shipping Name: by sea (shipping): IMO Class: Packing Group: Label: EMS: Marine Pollutant. t by air: IATA:	ADR/RID Class: 8 Packing Group: II Label: 8 Nr. Kemler: 80 Proper Shipping Name: CORROSIVE LIQUID by sea (shipping): IMO Class: 8 Packing Group: II Label: 8 EMS: F-A, S-B Marine Pollutant. NO	ADR/RID Class:8UN:Packing Group:IILabel:8Nr. Kemler:80Proper Shipping Name:CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.by sea (shipping): IMO Class:8UN:Packing Group:IILabel:8EMS:F-A, S-BMarine Pollutant.NOt by air: IATA:8UN:

Point. 3 Substances in Candidate List (Art. 59 REACH). None. Substances subject to authorisarion (Annex XIV REACH). None. Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None. Substances subject to the Rotterdam Convention: None. Substances subject to the Rotterdam Convention: None. Substances subject to the Stockholm Convention: None. Healthcare controls.	AR-CO CHIMICA S.R.L.	Revision nr. 1
Label: 8 SECTION 15. Regulatory information. 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture. Seveso category. None. Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006. Product. Product. 3 Substances in Candidate List (Art. 59 REACH), None. Substances subject to authorisation (Annex XIV REACH), None. Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None. Substances subject to the Rotterdam Convention: None. Substances subject to the Rotterdam Convention: None. Substances subject to the Stockholm Convention: None. Subject countoris, Subject countoris,		
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None. Substances subject to the Stockholm Convention: None. Healthcare controls.	None.	
Substances subject to the Stockholm Convention: None. <u>Healthcare controls.</u>	Substances subject to the Rotterdam Convention:	
None. Healthcare controls.	None.	
Healthcare controls.	Substances subject to the Stockholm Convention:	
	None.	
	Healthcare controls.	
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.		essment data prove that the risks related to the
Ingredients according to Regulation (EC) No 648/2004		
less than 5 % phosphates, phosphonates, amphoteric surfactants	less than 5 % phosphates, phosphonates, amphoteric surfactants	
SECTION 16. Other information.	SECTION 16. Other information.	
Text of hazard (H) indications mentioned in section 2-3 of the sheet:	Text of hazard (H) indications mentioned in section 2-3 of the sheet:	
Met. Corr. 1 Substance or mixture corrosive to metals, category 1	Met. Corr. 1 Substance or mixture corrosive to metals, category 1	
Acute Tox. 4 Acute toxicity, category 4		
Skin Corr. 1A Skin corrosion, category 1A Eye Dam. 1 Serious eye damage, category 1		
Eye Irrit. 2 Eye irritation, category 2		

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Skin Irrit. 2	Skin irritation, category 2	
STOT SE 3	Specific target organ toxicity - single exposure, category 3	
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1	
H290	May be corrosive to metals.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H315	Causes skin irritation.	
H335	May cause respiratory irritation.	
H400	Very toxic to aquatic life.	
Text of risk (R) phrases m	entioned in section 2-3 of the sheet:	
R22	HARMFUL IF SWALLOWED.	
R35	CAUSES SEVERE BURNS.	
R36	IRRITATING TO EYES.	
R36/37/38	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.	
R38	IRRITATING TO SKIN.	
R41	RISK OF SERIOUS DAMAGE TO EYES.	
R50	VERY TOXIC TO AQUATIC ORGANISMS.	
 CAS NUMBER: Chemical CE50: Effective concentra: CE NUMBER: Identifier in CLP: EC Regulation 1272/ DNEL: Derived No Effect I EmS: Emergency Schedul GHS: Globally Harmonized IATA DGR: International A IC50: Immobilization Conce IMDG: International Maritime INDEX NUMBER: Identifie LC50: Lethal Concentratio LD50: Lethal dose 50% OEL: Occupational Expose PBT: Persistent bioacumu PEC: Predicted environme PEC: Predicted no effect REACH: EC Regulation 15 RID: Regulation concernin TLV: Threshold Limit Value TWA STEL: Short-term ex TWA: Time-weighted aver VOE: Volatile organic Concerning WGK: Water hazard classe 	tion (required to induce a 50% effect) ESIS (European archive of existing substances) /2008 evel e d System of classification and labeling of chemicals ir Transport Association Dangerous Goods Regulation entration 50% me Code for dangerous goods e Organization er in Annex VI of CLP n 50% ure Level ulative and toxic as REACH Regulation ental Concentration evel concentration 307/2006 g the international transport of dangerous goods by train e ion that should not be exceeded during any time of occupational exposure. posure limit age exposure limit age exposure limit pounds very Bioaccumulative as for REACH Regulation es (German).	
GENERAL BIBLIOGRAPHY 1. Directive 1999/45/EC and following amendments		

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- 2. Directive 67/548/EEC and following amendments and adjustments
- 3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- Regulation (EC) 1272/2008 (CLP) of the European Parliament
 Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 6. Regulation (EC) 453/2010 of the European Parliament
- 7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament 8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
- 9. The Merck Index. 10th Edition
- 10. Handling Chemical Safety
- 11. Niosh Registry of Toxic Effects of Chemical Substances
 12. INRS Fiche Toxicologique (toxicological sheet)
- 13. Patty Industrial Hygiene and Toxicology
- 14. N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition

15. ECHA website Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified: 02 / 11 / 12 / 15.