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

1.1. Product identifier

HARDINOX

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

Use of the substance/mixture

Spray paints for professional use in aerosol containers

1.3. Details of the supplier of the safety data sheet

Company name:	a.m.p.e.r.e. system sas
Street:	Boite postale 27526
Place:	F-95040 Cergy Pontoise Cedex
Telephone:	+33134647272
Telefax:	+33130375517
e-mail:	fds@amperesystem.com
Responsible Department:	Responsible for the safety data sheet: sds@gbk-ingelheim.de
<u>1.4. Emergency telephone</u> number:	INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a) England and Wales: NHS Direct - 0845 4647; Scotland: NHS 24 - 08454 24 24
	24

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture according to 1272/2008/EC

Hazard categories: Aerosol: Aerosol 1 Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Extremely flammable aerosol. Pressurised container: May burst if heated. Causes serious eye irritation. May cause drowsiness or dizziness.

2.2. Label elements

Hazardous components which must be listed on the label

Acetone Butanone

Signal word:

Danger

Pictograms:



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary statements

Precautionary state	ments
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
5011	5
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P261	Avoid breathing spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.

P304+P340 I	If eye irritation persists: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Special labelling of cer	,

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.

SECTION 3: Composition/information on ingredients

For professional users only

3.2. Mixtures

Chemical characterization

Coloured synthetic resin aerosol in organic solvents

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulat	ion (EC) No. 1272/2008 [C	LP]	
110-19-0	Isobutyl acetate			< 25 %
	203-745-1	607-026-00-7	01-2119488971-22	
	Flam. Liq. 2; H225 EUH066			
67-64-1	Acetone			< 25 %
	200-662-2	606-001-00-8	01-2119471330-49	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE	3; H225 H319 H336 EUH0	66	
74-98-6	Propane			< 20 %
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1; H220			
106-97-8	Butane	< 15 %		
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1; H220			
1330-20-7	Xylene (mixed isomers)			< 5 %
	215-535-7	601-022-00-9	01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute To Tox. 1; H226 H312 H332 H315 H3		2, STOT SE 3, STOT RE 2, Asp.	
78-93-3	Butanone			< 5 %
	201-159-0	606-002-00-3	02-2119752535-35	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE	3; H225 H319 H336 EUH0	66	
64742-47-8	Distillates (petroleum)			< 5 %
	265-149-8			
	Asp. Tox. 1; H304 EUH066			

Full text of H and EUH phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately. Take away from danger area and lay down affected person.

After inhalation

Move to fresh air in case of accidental inhalation of vapours. In the event of symptoms refer for medical treatment.

After contact with skin

Wash off with soap and plenty of water.

Safety Data Sheetaccording to Regulation (EC) No 1907/2006a.m.p.e.r.e. system sasHARDINOXRevision date: 26.06.2015Revision No: 2,1

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Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Summon a doctor immediately. Induce vomiting only upon the advice of a physician.

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

Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking

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

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO2), water-spray.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce: Carbon monoxide and carbon dioxide

5.3. Advice for firefighters

Use breathing apparatus with independent air supply. Protective suit.

Additional information

Heating will cause pressure rise with risk of bursting. Cool containers at risk with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of vapour formation use respirator. Use only explosion-proof equipment. Ensure adequate ventilation. Use personal protective clothing. Keep away sources of ignition.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Shovel into suitable container for disposal.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8). Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Product code: 00127-0058-GHS

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion Keep away from sources of ignition - No smoking. Do not spray on a naked flame or any other incandescent material.

Heating will cause pressure rise with risk of bursting.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep containers tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

Incompatible with oxidizing agents.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Spray paints for professional use in aerosol containers

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
110-19-0	Isobutyl acetate	150	724		TWA (8 h)	WEL
		187	903		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol		Post shift

8.2. Exposure controls

Protective and hygiene measures

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Remove and wash contaminated clothes before re-use.

Avoid contact with eyes, skin or mucous membrane.

Eye/face protection

Safety goggles with side protection (EN 166). Eye wash bottle with pure water (EN 15154).

Hand protection

Splash protection:

Protective gloves resistant to chemicals made off nitrile, minimum coat thickness 0.4 mm, permeation resistance (wear duration) approx. 30 minutes, i.e. protective glove <Camatril Velours 730> made by

www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Long sleeved clothing (EN 368).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type AX) (EN 14387).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	Various
Odour:	Aromatic
Changes in the physical state	
Initial boiling point and boiling range:	- 44 °C
Flash point:	- 19 °C
Lower explosion limits:	1,5 vol. %
Upper explosion limits:	10,9vol. %
Ignition temperature:	365 °C
Vapour pressure:	8300 hPa
(at 20 °C)	
Density (at 20 °C):	n.d.
Water solubility:	Slightly miscible
(at 20 °C)	
Solvent content:	< 60 %
9.2. Other information	
No data available.	

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4. Conditions to avoid

Fire or intense heat may cause violent rupture of packages. In use formation of flammable/explosive vapour-air mixtures possible.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met. No toxicological data available.

Irritation and corrosivity

Product code: 00127-0058-GHS

Causes serious eye irritation. Skin irritation: Not classified.

Sensitising effects

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (Acetone), (Butanone)

Severe effects after repeated or prolonged exposure

Repeated exposure may cause skin dryness or cracking.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

Practical experience

Other observations

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Repeated exposure may cause skin dryness or cracking. Components of the product may be absorbed into the body through the skin. (skin absorption). Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. Attention. Beware, danger of aspiration!

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available. 12.2. Persistence and degradability No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6. Other adverse effects

Low hazard to waters.

Further information

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

150111

Where possible recycling is preferred to disposal. Can be incinerated, when in compliance with local regulations.

Waste disposal number of waste from residues/unused products

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers Classified as hazardous waste.

Contaminated packaging

Offer empty spray cans to an established disposal company.

SECTION 14: Transport information

_ ___

Land transport (ADR/RID)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group: Hazard label:	- 2.1
Classification code: Limited quantity: Excepted quantity: Transport category: Tunnel restriction code:	2 5F 1 L / 30 kg E0 2 D
Inland waterways transport (ADN)	
14.1. UN number:	UN 1950 AEROSOLS
14.2. UN proper shipping name: 14.3. Transport hazard class(es):	2
14.3. Transport nazaru class(es). 14.4. Packing group:	-
Hazard label:	2.1
Classification code:	5F
Limited quantity: Excepted quantity:	1 L / 30 kg E0
Marine transport (IMDG)	
14.1. UN number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
Hazard label:	2.1
Marine pollutant:	No
Limited quantity: Excepted quantity:	1 L / 30 kg E0
EmS:	F-D, S-U
Air transport (ICAO)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
Hazard label:	2.1

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Limited quantity Passenge	-	
Passenger LQ: Excepted quantity:	Y203	
IATA-packing instructions	EO	203
IATA-packing instructions IATA-max. quantity - Pass IATA-packing instructions IATA-max. quantity - Cargo	enger: · Cargo:	203 75 kg 203 150 kg
14.5. Environmental haza		
ENVIRONMENTALLY HAZ		
14.6. Special precautions		
	good industrial hygiene and saf	fety practice.
14.7. Transport in bulk ac	cording to Annex II of MARPOI only in approved and appropriate	L73/78 and the IBC Code
SECTION 15: Regulato	ry information	
15.1. Safety, health and e	nvironmental regulations/legis	lation specific for the substance or mixture
EU regulatory informatio	n	
2004/42/EC (VOC):	< 85 %	
National regulatory inform	nation	
Employment restrictions:		nployment restrictions for young people. Observe employment for child bearing mothers and nursing.
Water contaminating class	(D): 1 - slightly	water contaminating
15.2. Chemical safety ass	essment	
For this substance a chem	ical safety assessment has not b	been carried out.
SECTION 16: Other inf	ormation	
Abbreviations and acron	yms	
-	-	es marchandises Dangereuses par Route
-		oviaire de marchandises dangereuses
-	ime Code for Dangerous Goods	es marchandises dangereuses par voie de navigation intérieure
	•	, national Civil Aviation Organization
	convention for the Prevention of	
		quipment of Ships Carrying Dangerous Chemicals in Bulk
•	ed System of Classification and valuation, Authorization and Rest Service	•
EN = European norm	20.700	
ISO = International Organ		
DIN = Deutsche Industrie		
PBT = Persistent Bioaccu vPvB = Very Persistent ar		
LD = Lethal dose		
LC = Lethal concentration		
EC = Effect concentration		
IC = Median immobilisatio	n concentration or median inhibit	tory concentration
	ases (Number and full text)	
	remely flammable gas.	
	remely flammable aerosol. hly flammable liquid and vapour.	
•	mmable liquid and vapour.	
H229 Pre	ssurised container: May burst if	
	y be fatal if swallowed and enters	s airways.
	mful in contact with skin.	

H315

Causes skin irritation.

H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)