SAFETY DATA SHEET

1. Identification

GHS product identifier	Formula 409 Carpet Cleaner Aerosol 12/22oz	
Version #	01	
Issue date	07-02-2014	
CAS #	Mixture	
Recommended use	Stain remover	
Recommended Restrictions	Not available.	
Manufacturer		
Company name Address Email	The Clorox Company 1221 Broadway Oakland, CA, 94612 USA -	
Telephone Fax	1-510-271-7000	
Emergency telephone Number	For Medical Emergencies call: 1-800-446-1014	
	Transportation Emergencies, call Chemtrec: 1-800-424-9300	

2. Hazards identification

C	HS classification		
	Physical hazards	Gases under pressure	Compressed gas
	Health hazards	Skin corrosion/irritation	Category 3
		Reproductive toxicity	Category 1B
	Environmental hazards	Hazardous to the aquatic environment, acute hazard	

GHS label elements Signal word

Danger



Hazard statement	
H280 H316 H360 H402	Contains gas under pressure; may explode if heated. Causes mild skin irritation. May damage fertility or the unborn child. Harmful to aquatic life.
Precautionary statement	
Prevention	
P201 P202 P273 P281	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Use personal protective equipment as required.
Response	
P308 + P313 P332 + P313	IF exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention.
Storage	
P405 P410 + P403	Store locked up. Protect from sunlight. Store in a well-ventilated place.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations
Other hazards which do not esult in classification	None known.
upplemental information	4.55% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

3. Composition/information on ingredients

Components	CAS #	Percent
2-Propanol	67-63-0	1-3
ISOBUTANE	75-28-5	1-3
Sodium dodecyl sulphate	151-21-3	0.5-1.5
BORAT, TETRA, GARAM SODIUM, PENTAHIDRAT	12179-04-3	0.1-1
Lauramine oxide	1643-20-5	0.1-1
Sodium nitrite	7632-00-0	0.1-1
Other components below reportable levels		93.35

Other components below reportable levels

4. First aid measures

First aid procedures	Move to fresh air. Call a physician if symptoms develop or persist.
Inhalation	Wash off with soap and water. Get medical attention if irritation develops and persists.
Skin	Rinse with water. Get medical attention if irritation develops and persists.
Eye	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms and effects, both acute and delayed	Mild skin irritation.
Notes to physician	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General advice	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure.
Protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Protection of fire-fighters	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions; also consider inflame. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
6. Accidental release mea	
Personal precautions	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
Methods for containment	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Collect spillage.

Methods for cleaning up

Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up. This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct

sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10

Storage

8. Exposure controls / personal protection

of the SDS).

Control parameters

US. ACGIH Threshold Limit Values Components	Туре	Value	Form
2-Propanol (CAS 67-63-0) BORAT, TETRA, GARAM SODIUM, PENTAHIDRAT (CAS 12179-04-3)	STEL TWA STEL	400 ppm 200 ppm 6 mg/m3	Inhalable fraction
ISOBUTANE (CAS 75-28-5)	TWA STEL	2 mg/m3 1000 ppm	Inhalable fraction

Biological limit values

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ACGIH Biological Exposu Components	re Indices Value	Determinant	Specimen	Sampling Time
2-Propanol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*
* - For sampling details, ple	ase see the source		Onne	
Recommended monitoring procedures		rd monitoring procedure	s.	
Engineering controls Personal protective equipment	or other engine exposure limits	ering controls to mainta	plicable, use pro	hour) should be used. Ventilation rates cess enclosures, local exhaust ventilation, ls below recommended exposure limits. If rborne levels to an acceptable level.
Eye/face protection Skin protection	Chemical respi	rator with organic vapor protective clothing. Use	cartridge and fu	Il facepiece. s apron is recommended.
Respiratory protection		rator with organic vapor		
Hand protection		ate chemical resistant gl		

9. Physical and chemical properties

Appearance

Physical state	Liquid Foam Liquid Aerosol.
Color	White.
Form	Liquid. Compressed gas.
Odor	Floral
Odor threshold	Not available.
рН	9.8
Melting point/Freezing point	Not available.
Boiling point	Not available.
Flash point	482.0 °F (250.0 °C)

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Evaporation rate	Not available.
	Not available.
	Not available.
Flammability limits in air, upper, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies) Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
10. Stability and reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Reactivity	The product is stable and non-reactive under normal conditions of doe, storage and standpoint

Reactivity	The product is stable and non-reactive under normal conditions of acc, storage and and
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous	No dangerous reaction known under conditions of normal use.
reactions	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Conditions to avoid	
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Toxicological data Components	Species	Test Results	
2-Propanol (CAS 67-63-0)			
Acute			
Dermal LD50	Rabbit	12800 mg/kg	
Oral	Dec	4797 mg/kg	
LD50	Dog	3600 mg/kg	
	Mouse	5.03 g/kg	
	Rabbit Rat	4.7 g/kg	
	nai		
Other LD50	Mouse	1509 mg/kg	
LDS0	Rat	1099 mg/kg	
POPAT TETRA GARAMS	SODIUM, PENTAHIDRAT (CAS 12179-04-3		
Acute			
Dermal LD50	Rabbit	> 1055 mg/kg	
Inhalation LC50	Rat	> 0.002 mg/l, 4 Hours	
<i>Oral</i> LD50	Rat	2660 mg/kg	
ISOBUTANE (CAS 75-28-	5)		
Acute			
Inhalation		52 mg/l, 1 Hours	
LC50	Mouse	oz myn, i riouis	

Sodium dodooul autobate (CA	7454 01 01	cies	Test Results
Sodium dodecyl sulphate (CAS	5 151-21-3)		
Acute			
<i>Oral</i> LD50	D		
	Rat		1288 mg/kg
Other			
LD50	Mous	Se	118 mg/kg
	Rat		118 mg/kg
Sodium nitrite (CAS 7632-00-0))		
Acute			
Inhalation			
LC50	Rat		5.5 mg/l, 4 Hours
Oral			
LD50	Mous	e	175 mg/kg
	Rabbi	t	186 mg/kg
	Rat		
Other			85 mg/kg
LD50	Mouse	2	150
AC 400-3979	Rat	-	158 mg/kg
Deutes of a			65 mg/kg
Routes of exposure		on. Skin contact. Eye contact.	
Toxicological information	Occupat	ional exposure to the substance or mixtu	re may cause adverse effects.
Skin corrosion/irritation	Causes	mild skin irritation.	,
Serious eye damage/eye rritation	Direct co	ontact with eyes may cause temporary irr	itation.
Skin sensitization	This proc	duct is not expected to cause skin sensiti	zation
Mutagenicity	No data a	available to indicate product or any comp ic or genotoxic.	ponents present at greater than 0.1% are
	0		
Carcinogenicity		3	
Carcinogenicity ACGIH Carcinogens			
2-Propanol (CAS 67-63- BORAT, TETRA, GARA	-0) M SODIUM,	A4 Not classifiable	e as a human carcinogen. e as a human carcinogen.
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARA (CAS 12179-04-3)	M SODIUM,	A4 Not classifiable PENTAHIDRAT A4 Not classifiable	e as a human carcinogen. e as a human carcinogen.
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARA (CAS 12179-04-3) Reproductive toxicity	M SODIUM, May dam	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child.	e as a human carcinogen. e as a human carcinogen.
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARA (CAS 12179-04-3) Reproductive toxicity specific target organ toxicity - ingle exposure	M SODIUM,	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child.	e as a human carcinogen. e as a human carcinogen.
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARA (CAS 12179-04-3) Reproductive toxicity Specific target organ toxicity - ingle exposure Specific target organ toxicity -	M SODIUM, May dam	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child. ified.	e as a human carcinogen. e as a human carcinogen.
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ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARA (CAS 12179-04-3) Reproductive toxicity specific target organ toxicity - ingle exposure specific target organ toxicity - epeated exposure shronic effects	M SODIUM, May dam Not class Not classi Prolongec Mild skin i	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child. ified. ified.	e as a human carcinogen. e as a human carcinogen.
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARA (CAS 12179-04-3) Reproductive toxicity specific target organ toxicity - ingle exposure specific target organ toxicity - epeated exposure shronic effects ymptoms 2. Ecological information	M SODIUM, May dam Not class Not classi Prolongec Mild skin i	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child. ified. ified.	e as a human carcinogen. e as a human carcinogen.
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARA (CAS 12179-04-3) reproductive toxicity specific target organ toxicity - ingle exposure pecific target organ toxicity - epeated exposure hronic effects ymptoms 2. Ecological information cotoxicological data	M SODIUM, May dam Not class Not classi Prolongec Mild skin i	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child. ified. ified. d inhalation may be harmful. irritation.	e as a human carcinogen.
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARA (CAS 12179-04-3) Reproductive toxicity specific target organ toxicity - ingle exposure specific target organ toxicity - epeated exposure shronic effects ymptoms 2. Ecological information cotoxicological data omponents	M SODIUM, May dam Not class Not classi Prolongec Mild skin i	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child. ified. ified.	e as a human carcinogen. e as a human carcinogen. Test Results
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARA (CAS 12179-04-3) Reproductive toxicity specific target organ toxicity - ingle exposure pecific target organ toxicity - epeated exposure hronic effects ymptoms 2. Ecological information cotoxicological data omponents	M SODIUM, May dam Not class Not classi Prolongec Mild skin i	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child. ified. ified. d inhalation may be harmful. irritation.	e as a human carcinogen.
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARA (CAS 12179-04-3) reproductive toxicity pecific target organ toxicity - ingle exposure pecific target organ toxicity - peated exposure hronic effects ymptoms 2. Ecological information cotoxicological data propanol (CAS 67-63-0) Aquatic	M SODIUM, May dam Not class Not classi Prolongec Mild skin i	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child. ified. d inhalation may be harmful. irritation.	e as a human carcinogen. Test Results
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARA (CAS 12179-04-3) reproductive toxicity pecific target organ toxicity - ingle exposure pecific target organ toxicity - peated exposure hronic effects ymptoms 2. Ecological information cotoxicological data propanol (CAS 67-63-0) Aquatic Fish	M SODIUM, May dam Not class Not class Prolonged Mild skin i	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child. ified. d inhalation may be harmful. irritation. Species Bluegill (Lepomis macrochirus)	e as a human carcinogen.
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARAI (CAS 12179-04-3) Reproductive toxicity pecific target organ toxicity - ingle exposure pecific target organ toxicity - peated exposure hronic effects ymptoms 2. Ecological information cotoxicological data propanol (CAS 67-63-0) Aquatic Fish DRAT, TETRA, GARAM SODIUM	M SODIUM, May dam Not class Not class Prolonged Mild skin i	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child. ified. d inhalation may be harmful. irritation. Species Bluegill (Lepomis macrochirus)	e as a human carcinogen. Test Results
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARAI (CAS 12179-04-3) reproductive toxicity pecific target organ toxicity - ingle exposure pecific target organ toxicity - peated exposure hronic effects ymptoms 2. Ecological information cotoxicological data propanol (CAS 67-63-0) Aquatic Fish DRAT, TETRA, GARAM SODIUM Aquatic	M SODIUM, May dam Not classi Not classi Prolongec Mild skin i N LC50 M, PENTAHI	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child. ified. ified. d inhalation may be harmful. irritation. Species Bluegill (Lepomis macrochirus) DRAT (CAS 12179-04-3)	Test Results > 1400 mg/l, 96 hours
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARAI (CAS 12179-04-3) Reproductive toxicity pecific target organ toxicity - ingle exposure pecific target organ toxicity - peated exposure hronic effects ymptoms 2. Ecological information cotoxicological data propanol (CAS 67-63-0) Aquatic Fish DRAT, TETRA, GARAM SODIUM Aquatic Fish	M SODIUM, May dam Not class Not class Prolongec Mild skin i LC50 M, PENTAHI	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child. ified. d inhalation may be harmful. irritation. Species Bluegill (Lepomis macrochirus)	e as a human carcinogen. Test Results > 1400 mg/l, 96 hours
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ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARAI (CAS 12179-04-3) Reproductive toxicity specific target organ toxicity - ingle exposure specific target organ toxicity - epeated exposure specific target organ toxicity - epeated exposure shronic effects ymptoms 2. Ecological information cotoxicological data omponents Propanol (CAS 67-63-0) Aquatic Fish DRAT, TETRA, GARAM SODIUM Aquatic Fish odium dodecyl sulphate (CAS 15 Aquatic	M SODIUM, May dam Not classi Not classi Prolongec Mild skin i LC50 M, PENTAHII LC50 1-21-3)	A4 Not classifiable A4 Not classifiable age fertility or the unborn child. ified. ified. d inhalation may be harmful. irritation. Species Bluegill (Lepomis macrochirus) DRAT (CAS 12179-04-3) Western mosquitofish (Gambusia at	Test Results > 1400 mg/l, 96 hours
ACGIH Carcinogens 2-Propanol (CAS 67-63- BORAT, TETRA, GARAI (CAS 12179-04-3) Reproductive toxicity specific target organ toxicity - ingle exposure pecific target organ toxicity - epeated exposure hronic effects ymptoms 2. Ecological information cotoxicological data omponents Propanol (CAS 67-63-0) Aquatic Fish DRAT, TETRA, GARAM SODIUM Aquatic Fish dium dodecyl sulphate (CAS 15 Aquatic	M SODIUM, May dam Not class Not class Prolongec Mild skin i LC50 M, PENTAHI	A4 Not classifiable PENTAHIDRAT A4 Not classifiable age fertility or the unborn child. ified. ified. d inhalation may be harmful. irritation. Species Bluegill (Lepomis macrochirus) DRAT (CAS 12179-04-3)	Test Results > 1400 mg/l, 96 hours

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omponents	Species	Test Results
odium nitrite (CAS 7632-00-0)		
Aquatic		
Crustacea ECS	60 Greasyback shrimp (Metapenaeu ensis)	IS 16.14 - 26.61 mg/l, 48 hours
Fish LC5	0 Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.15 - 0.25 mg/l, 96 hours
Cotoxicity H	armful to aquatic life.	
Invironmental effects H	Harmful to aquatic organisms. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	
Persistence / degradability N	No data is available on the degradability of this product.	
	o data available.	
Bioaccumulative potential		
Octanol/water partition coe	efficient log Kow	
2-Propanol	0.05	
ISOBUTANE	2.76 1.6	
Sodium dodecyl sulphate		
Aquatic toxicity	ot known.	
	his product is miscible in water.	the state of the s
Other adverse effects N	lo other adverse environmental effects (e.g. oz otential, endocrine disruption, global warming	potential) are expected from this component.
13. Disposal considerations		
Disposal methods	Consult authorities before disposal. Do not allow this material to drain into sewers/water supplies Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.	
products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container emptied.	
14. Transport information		
ADR		
ALCONO. IN THE REPORT OF A	1950	
ON HUMBER	AEROSOLS, asphyxiant	
Transport hazard class(es)		
	2.2	
Subsidiary risk		
Label(s)	2.2	
Hazara Ho: (ABH)	Not available.	
Turinor rootnetten eret	E	
r autilig group	Not applicable.	
Environmental hazards	No.	procedures before handling.
	Read safety instructions, SDS and emergency	P
RID	1950	
UN number	AEROSOLS, asphyxiant	
UN proper shipping name Transport hazard class(es)	ALI 1000LO, approxim	
	2.2	
Class Subsidiary risk	-	
Label(s)	2.2	
Packing group	Not applicable.	
Environmental bazards	No	
Special precautions for user	Read safety instructions, SDS and emergence	y procedures before handling.
IATA		
UN number	1950	
UN proper shipping name	Aerosols, non-flammable	
Transport hazard class(es)	2.2	

Subsidiary risk Packing group Not applicable. **Environmental hazards** No. **ERG Code** 2L Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Other information Passenger and cargo Allowed. aircraft Cargo aircraft only Allowed. IMDG **UN number** 1950 UN proper shipping name AEROSOLS, asphyxiant Transport hazard class(es) Class 2 Subsidiary risk 5A **Packing group** Not applicable. **Environmental hazards** Marine pollutant No. EmS Not available. Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according to Not available. Annex II of MARPOL 73/78 and the IBC Code

ADR; IATA; RID



15. Regulatory information

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.