(2012 OSHA Hazard Communication Standard (29 CFR 1910.1200))

SAFETY DATA SHEET

SIEMENS

Atellica™ CH Acetaminophen (Acet)

SDS # : 11097522

Section 1. Identification

Product identifier : Atellica™ CH Acetaminophen (Acet)

Product code : 11097522

Product type : Liquid.

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

Not applicable.

Manufactured/supplied : Siemens Healthcare Diagnostics Inc.
511 Benedict Avenue
Tarrytown, NY 10591-5097 USA
1-877-229-3711

(800) 424-9300 (CHEMTREC) (24/365)

Section 2. Hazards identification

OSHA/HCS status : Acet Reagent 1 — While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Acet Reagent 2 — While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Acet Reagent 1 — Not classified.
Acet Reagent 2 — Not classified.

Additional information : Not available.

Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.

GHS label elements

Signal word : Acet Reagent 1 — No signal word.
Acet Reagent 2 — No signal word.

Hazard statements : Acet Reagent 1 — No known significant effects or critical hazards.
Acet Reagent 2 — No known significant effects or critical hazards.

Precautionary statements

Prevention : Acet Reagent 1 — Not applicable.
Acet Reagent 2 — Not applicable.

Response : Acet Reagent 1 — Not applicable.
Acet Reagent 2 — Not applicable.

Section 2. Hazards identification

Storage	:	Acet Reagent 1	Not applicable.
		Acet Reagent 2	Not applicable.
Disposal	:	Acet Reagent 1	Not applicable.
		Acet Reagent 2	Not applicable.
Supplemental label elements	:	Acet Reagent 1	None known.
		Acet Reagent 2	None known.
Hazards not otherwise classified	:	Acet Reagent 1	None known.
		Acet Reagent 2	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Acet Reagent 1	Mixture
		Acet Reagent 2	Mixture

Ingredient name	%	CAS number
Acet Reagent 2 sodium carbonate	1 - 3	497-19-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Acet Reagent 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		Acet Reagent 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Acet Reagent 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Acet Reagent 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Acet Reagent 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Acet Reagent 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

Ingestion	:	Acet Reagent 1	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
		Acet Reagent 2	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	Acet Reagent 1	No known significant effects or critical hazards.
		Acet Reagent 2	No known significant effects or critical hazards.
Inhalation	:	Acet Reagent 1	No known significant effects or critical hazards.
		Acet Reagent 2	No known significant effects or critical hazards.
Skin contact	:	Acet Reagent 1	No known significant effects or critical hazards.
		Acet Reagent 2	No known significant effects or critical hazards.
Ingestion	:	Acet Reagent 1	No known significant effects or critical hazards.
		Acet Reagent 2	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	Acet Reagent 1	No specific data.
		Acet Reagent 2	No specific data.
Inhalation	:	Acet Reagent 1	No specific data.
		Acet Reagent 2	No specific data.
Skin contact	:	Acet Reagent 1	No specific data.
		Acet Reagent 2	No specific data.
Ingestion	:	Acet Reagent 1	No specific data.
		Acet Reagent 2	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Physical state	: Acet Reagent 1	Liquid.
	Acet Reagent 2	Liquid.
Color	: Acet Reagent 1	Colorless.
	Acet Reagent 2	Colorless.
Odor	: Acet Reagent 1	Odorless.
	Acet Reagent 2	Odorless.
pH	: Acet Reagent 1	8.6
	Acet Reagent 2	12.2 [Conc. (% w/w): 0.34%]
Flash point	: Acet Reagent 1	[Product does not sustain combustion.]
	Acet Reagent 2	[Product does not sustain combustion.]

Section 9. Physical and chemical properties

Flammability (solid, gas) : Acet Reagent 1 — Not relevant/applicable due to nature of the product.
Acet Reagent 2 — Not relevant/applicable due to nature of the product.

Relative density : Acet Reagent 1 — >1
Acet Reagent 2 — >1

Solubility in water : Acet Reagent 1 — Not relevant/applicable due to nature of the product.
Acet Reagent 2 — Not relevant/applicable due to nature of the product.

Partition coefficient: n-octanol/water : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Auto-ignition temperature : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Viscosity : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Aerosol product

Type of aerosol : Acet Reagent 1 — Not applicable.
Acet Reagent 2 — Not applicable.

Section 10. Stability and reactivity

Reactivity : Acet Reagent 1 — No specific test data related to reactivity available for this product or its ingredients.
Acet Reagent 2 — No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : Acet Reagent 1 — The product is stable.
Acet Reagent 2 — The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Acet Reagent 2 sodium carbonate	LD50 Oral	Rat	4090 mg/kg	-

Conclusion/Summary : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Acet Reagent 2					
sodium carbonate	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Severe irritant	Rabbit	-	50 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Conclusion/Summary

Skin : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Eyes : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Respiratory : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Sensitization

Not available.

Conclusion/Summary

Skin : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Respiratory : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Mutagenicity

Not available.

Conclusion/Summary : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Carcinogenicity

Not available.

Conclusion/Summary : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Reproductive toxicity

Not available.

Conclusion/Summary : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Teratogenicity

Not available.

Conclusion/Summary : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Potential acute health effects

Section 11. Toxicological information

Eye contact	:	Acet Reagent 1	No known significant effects or critical hazards.
		Acet Reagent 2	No known significant effects or critical hazards.
Inhalation	:	Acet Reagent 1	No known significant effects or critical hazards.
		Acet Reagent 2	No known significant effects or critical hazards.
Skin contact	:	Acet Reagent 1	No known significant effects or critical hazards.
		Acet Reagent 2	No known significant effects or critical hazards.
Ingestion	:	Acet Reagent 1	No known significant effects or critical hazards.
		Acet Reagent 2	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	Acet Reagent 1	No specific data.
		Acet Reagent 2	No specific data.
Inhalation	:	Acet Reagent 1	No specific data.
		Acet Reagent 2	No specific data.
Skin contact	:	Acet Reagent 1	No specific data.
		Acet Reagent 2	No specific data.
Ingestion	:	Acet Reagent 1	No specific data.
		Acet Reagent 2	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	:	Acet Reagent 1	Not available.
		Acet Reagent 2	Not available.
Potential delayed effects	:	Acet Reagent 1	Not available.
		Acet Reagent 2	Not available.

Long term exposure

Potential immediate effects	:	Acet Reagent 1	Not available.
		Acet Reagent 2	Not available.
Potential delayed effects	:	Acet Reagent 1	Not available.
		Acet Reagent 2	Not available.

Potential chronic health effects

Not available.

Conclusion/Summary	:	Not available.	Acet Reagent 1
		Not available.	Acet Reagent 2
General	:	No known significant effects or critical hazards.	
Carcinogenicity	:	No known significant effects or critical hazards.	
Mutagenicity	:	No known significant effects or critical hazards.	
Teratogenicity	:	No known significant effects or critical hazards.	
Developmental effects	:	No known significant effects or critical hazards.	
Fertility effects	:	No known significant effects or critical hazards.	

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Acet Reagent 2 Oral	213579.8 mg/kg

Section 11. Toxicological information

Interactive effects : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Other information : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Acet Reagent 2 sodium carbonate	Acute EC50 242000 µg/l Fresh water Acute LC50 176000 µg/l Fresh water Acute LC50 265000 µg/l Fresh water Acute LC50 300000 µg/l Fresh water	Algae - Navicula seminulum Crustaceans - Amphipoda Daphnia - Daphnia magna Fish - Lepomis macrochirus	96 hours 48 hours 48 hours 96 hours

Conclusion/Summary : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Persistence and degradability

Conclusion/Summary : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Mobility : Acet Reagent 1 — Not available.
Acet Reagent 2 — Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.

Section 14. Transport information

DOT Classification

UN number — Acet Reagent 1: Not regulated.
Acet Reagent 2: Not regulated.

UN proper shipping name — Acet Reagent 1: -
Acet Reagent 2: -

Section 14. Transport information

Transport hazard class(es)	Acet Reagent 1	-
	Acet Reagent 2	-
Packing group	Acet Reagent 1	-
	Acet Reagent 2	-
Environmental hazards	Acet Reagent 1	No.
	Acet Reagent 2	No.
Additional information	Acet Reagent 1	-
	Acet Reagent 2	-

TDG Classification

UN number	Acet Reagent 1	Not regulated.
	Acet Reagent 2	Not regulated.
UN proper shipping name	Acet Reagent 1	-
	Acet Reagent 2	-
Transport hazard class(es)	Acet Reagent 1	-
	Acet Reagent 2	-
Packing group	Acet Reagent 1	-
	Acet Reagent 2	-
Environmental hazards	Acet Reagent 1	No.
	Acet Reagent 2	No.
Additional information	Acet Reagent 1	-
	Acet Reagent 2	-

ADR/RID

UN number	Acet Reagent 1	Not regulated.
	Acet Reagent 2	Not regulated.
UN proper shipping name	Acet Reagent 1	-
	Acet Reagent 2	-
Transport hazard class(es)	Acet Reagent 1	-
	Acet Reagent 2	-
Packing group	Acet Reagent 1	-
	Acet Reagent 2	-
Environmental hazards	Acet Reagent 1	No.
	Acet Reagent 2	No.
Additional information	Acet Reagent 1	-
	Acet Reagent 2	-

IMDG

UN number	Acet Reagent 1	Not regulated.
	Acet Reagent 2	Not regulated.
UN proper shipping name	Acet Reagent 1	-
	Acet Reagent 2	-

Section 14. Transport information

Transport hazard class(es)	Acet Reagent 1	-
	Acet Reagent 2	-
Packing group	Acet Reagent 1	-
	Acet Reagent 2	-
Environmental hazards	Acet Reagent 1	No.
	Acet Reagent 2	No.
Additional information	Acet Reagent 1	-
	Acet Reagent 2	-

IATA

UN number	Acet Reagent 1	Not regulated.
	Acet Reagent 2	Not regulated.
UN proper shipping name	Acet Reagent 1	-
	Acet Reagent 2	-
Transport hazard class(es)	Acet Reagent 1	-
	Acet Reagent 2	-
Packing group	Acet Reagent 1	-
	Acet Reagent 2	-
Environmental hazards	Acet Reagent 1	No.
	Acet Reagent 2	No.
Additional information	Acet Reagent 1	-
	Acet Reagent 2	-

Special precautions for user : Acet Reagent 1

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Acet Reagent 2

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code

Proper shipping name :

Ship type :

Pollution category :

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

United States inventory (TSCA 8b): Not determined.

Clean Water Act (CWA) 311: sodium hydroxide

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ (lbs)	SARA 302 TPQ (gallons)	SARA 304 RQ (lbs)	SARA 304 RQ (gallons)
Acet Reagent 1 sodium azide	0.005	Yes.	500	-	1000	-

SARA 304 RQ : 40000000 lbs / 18160000 kg

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Acet Reagent 2 sodium carbonate	1 - 3	No.	No.	No.	Yes.	No.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

International regulations

Chemical Weapons Convention List Schedule I Chemicals :	Acet Reagent 1	Not listed
	Acet Reagent 2	Not listed
Chemical Weapons Convention List Schedule II Chemicals :	Acet Reagent 1	Not listed
	Acet Reagent 2	Not listed
Chemical Weapons Convention List Schedule III Chemicals :	Acet Reagent 1	Not listed
	Acet Reagent 2	Not listed

Section 16. Other information

History

Date of issue/Date of revision : 5/18/2017

Version : 1.01

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Indicates information that has changed from previously issued version.