



# Health, Safety & Environment fact sheet

## Yara Uusikaupunki, 2009



**Location:** Uusikaupunki, Finland

**Number of employees:** 220

**Annual production capacity (ton)**

**Nitric acid:** 500,000

**Nitrates:** 100,000

**NPK:** 1,000,000

**Certification:**

ISO 9001, ISO 14001, OHSAS 18001

**Other systems:**

EFMA Product Stewardship, ISPS, HACCP

Health and safety indicators	
Employee sickness rate (%)	5.6
LTI-rate for own employees	4.0
LTI-rate for employees and contractors	3.8
TRI-rate for own employees	7.9
Major accidents during the year	0

Plant energy and water consumption	
Electrical consumption (MWh)	99,000
Electricity purchased (MWh)	62,500
Electricity generated (MWh)	30,100
District heat production (MWh)	30,000
Cooling water consumption (m <sup>3</sup> )	31,800,000
Raw water consumption (m <sup>3</sup> )	660,000

Emissions and waste	Amount	% of permit	Possible impacts
F to air	3.8 t	38	Regional acid precipitation and local haze formation
NH <sub>4</sub> -N to air	74 t	50	Regional acid precipitation and local haze formation
N <sub>2</sub> O to air (NA plant)	1,914 t	-	Climate change, global warming effects
NO <sub>x</sub> to air T2 (NA plant)	139 ppm	70	Regional acid precipitation and local haze formation
NO <sub>x</sub> to air T4 (NA plant)	112 ppm	70	Regional acid precipitation and local haze formation
P to water	0.17 kg/d	11	Eutrophication (excess nutrients in waterways and algae blooming)
N to water	229 kg/d	76	Eutrophication (excess nutrients in waterways and algae blooming)
Hazardous waste	56 t	-	
Non-hazardous waste	1,618 t	-	

### Actions 2009 for further improvements

- New work permit according to Yara practice, including Safe Job Analysis
- Started implementation of behavior-based safety (BBS) program and processes
- Quarterly systematic safety training
- National Occupational Safety Card refresh training for all personnel
- New environmental permit development actions started and partly fulfilled
- A new co-operation partner in auditing and certification process
- REACH: raw material surveys, pre-registration and preparation for future requirements, on schedule

LTI (Lost-Time Injury) rate: Number of injuries with absence from work in excess of day of injury, per million hours worked

TRI (Total Recordable Injury) rate: Number of injuries with absence from work + temporary lighter work tasks + medical treatment, per million hours worked

Major accident: Accident leading to fatality, property damage or loss of production in excess of €10 million, significant environmental incident

"Ton" in this document refers to metric ton, equal to 1000 kilograms.