



# Health, Safety & Environment fact sheet

## Yara Ravenna, 2010



Location: Ravenna, Italy

Number of employees: 142

Annual production capacity (ton)

Nitric acid: 500,000

Nitrates: 400,000

NPK: 300,000

Certification:

ISO 9001, ISO 14001

Other systems:

HACCP, EFMA Product Stewardship

Health and safety indicators	
Employee sickness rate (%)	4.7
LTI-rate for own employees	4.1
LTI-rate for contractors	0
LTI-rate for employees and contractors	2.0
TRI-rate for own employees	4.1
Major accidents during the year	0

Emissions and waste	Ton per year	% of permit	Possible impacts
CO <sub>2</sub> to air	10,748	-	Global warming effects
N <sub>2</sub> O to air	261	-	Global warming effects
NO <sub>x</sub> to air	258	32	Acidification and haze formation
NH <sub>3</sub> to air	83	35	Acidification and haze formation
F to air	1.6	18	Acidification
Dust to air	197	47	Local nuisance and haze formation
N to water	* 287	38	Eutrophication (algae growth)
P to water	* 7	23	Eutrophication (algae growth)
Hazardous waste	59	-	
Non-hazardous waste	1,447	-	

\*Amounts delivered to external treatment plant

### Actions for further improvements

- Conformance with Yara standards
- OHSAS 18001 certification process
- Project to reduce dust emission from NPK granulation unit
- Hazop review for CAN/AN plant
- Fully integrated CEMS for nitric acid plants

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 or serious bodily harm, property damage or loss of production in excess of € 10 million, significant environmental incident